

# 2020-2021 Retiming Before/After Study and Benefit Cost Analysis <br> Orange, Osceola, and Seminole Counties, Florida 

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Prepared for MetroPlan Orlando
Prepared by Kittelson \& Associates, Inc.


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## Introduction

MetroPlan Orlando requested Kittelson \& Associates, Inc. (Kittelson) to evaluate several metrics associated with corridor signal retiming projects completed across the metropolitan planning area (i.e., Seminole, Orange, and Osceola Counties) between January 2021 and May 2021. Signal retiming along corridors is a relatively low-cost Transportation Systems Management and Operations (TSMO) strategy that typically results in measurable benefits including reduced vehicle travel time, fuel savings, multimodal benefits, decreased number of stops/slowdowns, smoother signal progression, slower speeds, increased safety, and more. MetroPlan Orlando has been conducting this annual evaluation since 2007 to track the costs and benefits of this TSMO strategy. This study is focused on understanding the costs and benefits of the signal retiming implemented by MetroPlan Orlando in FY 2020/2021.

In FY 2020/2021, MetroPlan Orlando retimed twenty-six (26) corridors and five (5) intersections during school drop-off/pick-up times, as shown in Table 1. A full list of the retimed corridors retimed is shown in Table 2. Signals were retimed along 25 corridors and at five (5) school intersections within Seminole, Orange, and Osceola Counties. The stand alone intersections are located at schools and were retimed speficically to reduce delay during school drop-off and pick-up times. The locations of each retimed corridor or intersection are shown graphically in Figure 1, Figure 2, and Figure 3.

Table 1: 2020/2021 MetroPlan Retiming Project Summary

|  | Weekday <br> Only | Weekend <br> Only |  <br> Weekend | Total |
| :--- | :---: | :---: | :---: | :---: |
| Corridors | 20 | 5 | 1 | 26 |
| School Intersections | 5 | 0 | 0 | 5 |

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a regional transportation partnership Introduction

Table 2: 2020/2021 Study Corridors

| Corridor No. | Road | Limits | Length <br> (mi.) | County |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Hiawassee Road | Mardell Court to Raleigh Street | 1.9 | Orange |
| 2 | Metrowest Boulevard | Metrocenter Boulevard to Wilshire Drive | 0.4 | Orange |
| 3 | Universal Boulevard | Hard Rock, Portofino Bay Entrance to I-4 EB Ramps | 1.0 | Orange |
| 4 | Millenia Blvd | Radebaugh Way to Conservatory Lane | 0.6 | Orange |
| 5 | Vineland Road | Radebaugh Way to Walden Circle | 0.2 | Orange |
| 6 | Apopka Vineland Road | Bayside Drive/Torey Pines to Steer Lake Road | 2.7 | Orange |
| 7 | Conroy Windermere Road | Chain of Lakes School to Turkey Lake Road | 1.9 | Orange |
| $8^{1}$ | Good Homes Road/Old Winter Garden Road | SR 408 WB Ramps to Ferguson Drive | 5.7 | Orange |
| 8A |  | SR 408 WB Ramps to Powers Drive | 2.6 |  |
| 8B | - | Pine Hills Road to Ferguson Drive | 1.7 | - |
| 91 | West Road/Clarcona Ocoee Road | Ocoee Apopka Road to Rose Avenue | 7.1 | Orange |
| 9A |  | Ocoee Apopka Road to Apopka-Vineland Road | 5.0 | - |
| 9 B |  | Apopka-Vineland Road to Rose Avenue | 2.1 | - |
| $10^{1}$ | Beggs Road/Edgewater Drive | Overland Road to All American Boulevard | 2.3 | Orange |
| 10A |  | Overland Road to Mott Avenue | 1.0 |  |
| 10B | - | Mott Avenue to All American Boulevard | 1.3 | - |
| 11 | John Young Parkway | 33rd Street/35th Street to C.R. Smith Street | 2.0 | Orange |
| $12^{2}$ | SR 426 | Old Howell Branch Road to Dean Road | 2.2 | Seminole |
| $13^{2}$ | SR 434 | Manor Avenue to Wayman Street | 4.6 | Seminole |
| $14^{2}$ | US17/92 | I-4 WB Ramp to Orange Boulevard | 0.6 | Seminole |
| $15^{2}$ | SR 436 | Line Drive to San Sebastian Prado | 2.9 | Seminole |
| $16^{2}$ | SR 434 | SR 414 to E. Lake Brantley Drive | 3.5 | Seminole |
| $17^{3}$ | Sand Lake Road | Lake Brantley High School to Oak Haven Road | 0.9 | Seminole |
| 18 | US 192 | Turnpike NB Off-Ramp to Old Hickory Tree Road | 5.0 | Osceola |
| 19 | CR 532 | Masters Boulevard to Old Lake Wilson Road | 2.0 | Osceola |
| 20 | Good Homes Road | Balboa Drive to White Road | 0.3 | Orange |
| 21 | Pine Hills Road | Balboa Drive to North Lane | 2.7 | Orange |
| 22 | Maitland Avenue | Maitland Boulevard to Horatio Avenue | 0.6 | Orange |
| 23 | Hiawassee Road (Apopka) | Wal-Mart Entrance to Apopka Boulevard | 0.3 | Orange |
| 24 | Hiawassee Road (Orange) | SR 408 EB/WB Ramps to Wekiva High School | 6.2 | Orange |
| 25 | Park Avenue | E 5th Street to US 441 | 0.1 | Orange |
| 26 | Vick Road | Old Dixie Highway to US 441 | 0.1 | Orange |

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Connected Vehicle (CV) Data

## Connected Vehicle (CV) Data

Connected Vehicle (CV) data was obtained from Wejo, an England-based aggregator and CV data provider, for use in calculating performance metrics on retimed corridors and intersections. Wejo's data is sourced from General Motors (GM) vehicles with model years 2015 and more recent. Data regarding a CV's location, speed, and direction of travel are automatically reported by the CV every three (3) seconds. The temporal and spatial resolution of the CV data is comparable to that obtained from GPS-equipped floating car runs. The methodology used to process and analyze CV data is attached in Appendix A.

## CV Equity Considerations

An equity analysis was completed to determine the distribution of trips captured with the Wejo data within the MetroPlan Orlando planning area. This analysis looked at the penetration rate (by census tracts) in Osceola, Orange, and Seminole counties. The calculation of the penetration rate relies on assumed home locations for each CV (aka device). The device home location was identified as the census tract where a device started trips most frequently. The number of devices that started trips most frequently in each tract was compared to population counts from the American Community Survey (ACS) 2015-2019. Device share by minority population, Hispanic origin, and people living in poverty were also examined.

Wejo data underrepresents tracts typically associated with Environmental Justic focus areas. Due to equity limitations, CV data should not be used as-is for metrics related to origindestination (O-D) trip patterns; therefore, O-D metrics were not considered in this analysis. However, corridor-focused measures like travel times, speeds, or delay are less susceptible to bias and were calculated using CV data. Table 3 lists the device penetration rate for each Environmental Justice category. Figure 4 shows the device penetration rates by census tract.

Table 3: Device Penetration Rate by Environmental Justice Category

| Environmental Justice Category | Device Penetration Rate |
| :--- | :---: |
| Average Tract Penetration Rate | $1.62 \%$ |
| Average Penetration Rate for <br> Environmental Justice Focus Areas | $1.20 \%$ |
| Average Penetration for Tracts with <br> more than 15\% Minority Population | $1.55 \%$ |
| Average Penetration for Tracts with <br> more than 15.5\% Poverty Population | $1.31 \%$ |
| Average Penetration for Tracts with <br> more than 15\% Hispanic Population | $1.62 \%$ |

Figure 4: Device Penetration Rate by Census Tract


## Performance Measures

The project team developed several performance measures to evaluate the retiming program. Historically, evaluation has focused on corridor travel time, however with the use of connected vehicle (CV) data, additional performance measures are available for consideration. For this 2020/2021 retiming cycle, end-to-end corridor travel time is still the only benefit included in the benefit cost analysis; however all metrics are presented for consideration. The performance measures calculated for the 2020/2021 corridors are summarized in Table 4. A full methodology for calculating these performance measures is attached in Appendix A or is described in the following sections. The dates of data used for each corridor along with implementation dates are summarized in Table 5. Holidays were excluded from analysis.

Table 4: Performance Measures

| Performance <br> Measure | Description | Intersection | Segment | Corridor |
| :--- | :--- | :--- | :--- | :---: |
| Corridor Travel <br> Time | The average time it takes motorists <br> to traverse the corridor |  |  | $\checkmark$ |
| Corridor Travel <br> Time Reliability | A measure of how reliable a travel <br> time is |  | $\checkmark$ |  |
| Fuel <br>  <br> Emissions |  <br> emissions travel time takes along a <br> corridor |  | $\checkmark$ |  |
| Intersection <br> Delay | The average time it takes motorists <br> to clear a signalized intersection <br> approach | $\checkmark$ |  |  |
| Signal |  |  |  |  |
| Progression | Proportion of motorists able to "hit" <br> green signals as they travel through <br> the corridor | $\checkmark$ |  | $\checkmark$ |
| Stops/Slow | Average number of stops/slow <br> downs by motorists traveling through <br> Downs full corridor or segments |  | $\checkmark$ | $\checkmark$ |
| Travelled Speed | Proportion of motorists traveling at <br> different speeds |  | $\checkmark$ |  |
| Pedestrian Delay | The average delay a pedestrian <br> experiences crossing an intersection | $\checkmark$ |  |  |

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Performance Measures
Table 5: 2020/2021 Data Collection Dates

| Corridor No. | Road | Weekday/ Weekend | Before Data Dates |  | Implementation date ${ }^{1}$ | After Data Dates |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Hiawassee Road | WD | 11/1/2020 to | 1/24/2021 | 1/25/2021 | 4/1/2021 to | 5/23/2021 |
| 2 | Metrowest Boulevard | WD | 11/1/2020 to | 1/24/2021 | 1/25/2021 | 4/1/2021 to | 5/23/2021 |
| 3 | Universal Boulevard | WD | 11/1/2020 to | 1/31/2021 | 2/22/2021 | 4/1/2021 to | 5/23/2021 |
| 4 | Millenia Blvd | WD | 11/1/2020 to | 1/10/2021 | 1/11/2021 | 4/1/2021 to | 5/23/2021 |
| 5 | Vineland Road | WD | 11/1/2020 to | 1/10/2021 | 1/11/2021 | 4/1/2021 to | 5/23/2021 |
| 6 | Apopka Vineland Road | WD | 11/1/2020 to | 1/31/2021 | 3/1/2021 | 4/1/2021 to | 5/23/2021 |
| 7 | Conroy Windermere Road | WD | 11/1/2020 to | 1/31/2021 | 3/8/2021 | 4/1/2021 to | 5/23/2021 |
| $8^{2}$ | Good Homes Road/OId Winter Garden Road | WD | 11/1/2020 to | 1/31/2021 | 3/29/2021 | 4/1/2021 to | 5/23/2021 |
| 8A | SR 408 WB Ramps to Powers Drive | - | 11/1/2020 to | 1/31/2021 | 3/29/2021 | 4/1/2021 to | 5/23/2021 |
| 8B | Pine Hills Road to Ferguson Drive | - | 11/1/2020 to | 1/31/2021 | 3/29/2021 | 4/1/2021 to | 5/23/2021 |
| 92 | West Road/Clarcona Ocoee Road | WD | 11/1/2020 to | 1/31/2021 | 3/22/2021 | 4/1/2021 to | 5/23/2021 |
| 9A | Ocoee Apopka Road to ApopkaVineland Road | - | 11/1/2020 to | 1/31/2021 | 3/22/2021 | 4/1/2021 to | 5/23/2021 |
| 9B | Apopka-Vineland Road to Rose Avenue | - | 11/1/2020 to | 1/31/2021 | 3/22/2021 | 4/1/2021 to | 5/23/2021 |
| $10^{2}$ | Beggs Road/Edgewater Drive | WD | 11/1/2020 to | 1/24/2021 | 1/25/2021 | 4/1/2021 to | 5/23/2021 |
| 10A | Overland Road to Mott Avenue | - | 11/1/2020 to | 1/24/2021 | 1/25/2021 | 4/1/2021 to | 5/23/2021 |
| 10B | Mott Avenue to All American Boulevard | - | 11/1/2020 to | 1/24/2021 | 1/25/2021 | 4/1/2021 to | 5/23/2021 |
| 11 | John Young Parkway | WD | 11/1/2020 to | 5/9/2021 | 5/10/2021 | $5 / 17 / 2021$ to | 5/31/2021 |
| $12^{3}$ | SR 426 | WE | 11/1/2020 to | 1/31/2021 | 2/8/2021 | 4/1/2021 to | 5/23/2021 |
| $13^{3}$ | SR 434 | WE | 11/1/2020 to | 5/16/2021 | 5/17/2021 | $5 / 24 / 2021$ to | 5/31/2021 |
| 143 | US17/92 | WE | 11/1/2020 to | 4/19/2021 | 4/19/2021 | 4/26/2021 to | 5/23/2021 |
| $15^{3}$ | SR 436 | WE | 11/1/2020 to | 1/31/2021 | 3/8/2021 | 4/1/2021 to | 5/23/2021 |
| $16^{3}$ | SR 434 | WE | 11/1/2020 to | 1/31/2021 | 3/8/2021 | 4/1/2021 to | 5/23/2021 |
|  | Sand | WD | 11/1/2020 to | 1/31/2021 | 3/8/2021 | $4 / 1 / 2021$ to | 5/23/2021 |
| 174 |  | WE | 11/1/2020 to | 1/31/2021 | 3/8/2021 | 4/1/2021 to | 5/23/2021 |
| 18 | US 192 | WD | 11/1/2020 to | 1/31/2021 | 2/15/2021 | 4/1/2021 to | 5/23/2021 |
| 19 | CR 532 | WD | 11/1/2020 to | 1/31/2021 | 4/5/2021 | 4/12/2021 to | 5/23/2021 |
| 20 | Good Homes Road | WD | 11/1/2020 to | 1/17/2021 | 1/18/2021 | 4/1/2021 to | 5/23/2021 |
| 21 | Pine Hills Road | WD | 11/1/2020 to | 1/31/2021 | 2/15/2021 | 4/1/2021 to | 5/23/2021 |
| 22 | Maitland Avenue | WD | 11/1/2020 to | 5/16/2021 | 5/17/2021 | 5/24/2021 to | 5/31/2021 |
| 23 | Hiawassee Road (Apopka) | WD | 11/1/2020 to | 5/2/2021 | 5/3/2021 | $5 / 10 / 2021$ to | 5/23/2021 |
| 24 | Hiawassee Road (Orange) | WD | 11/1/2020 to | 1/31/2021 | 2/22/2021 | 4/1/2021 to | 5/23/2021 |
| 25 | Park Avenue | WD | 11/1/2020 to | 4/11/2021 | 4/12/2021 | 4/19/2021 to | 5/23/2021 |
| 26 | Vick Road | WD | 11/1/2020 to | 4/11/2021 | 4/12/2021 | 4/19/2021 to | 5/23/2021 |

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## Corridor Travel Time

Corridor travel time was used to measure the effectiveness of the signal retiming for most of the FY 20-21 retimed corridors. Weekday data was collected during the AM (7 to 9 AM) and PM (4 to 6 PM) peak periods. Weekend data was collected during the midday peak period from 2 to 3 PM on Saturday and 4 to 5 PM on Sunday. The peak periods were defined in alignment with the signal retiming plans and the traffic counts collected before signal retiming.

The AM and PM peak period corridor travel times and the change in average travel times associated with the retiming projects are summarized by direction in Table 6. Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively. As shown in Table 6, average travel times decreased after the signals were retimed on most corridors.

The change in average travel times/intersection delays (seconds per vehicle) was converted to a total travel time savings (vehicle-hours) by accounting for the peak hour traffic volumes on the corridors. Segment volume counts or turning movement counts provided by the signal retiming consultants were used to determine the directional peak-hour volumes, as avalaible. This data was collected prior to the signal retiming (i.e., in the "before" condition). Along corridors where counts were taken in multiple locations, the average peak hour volumes were calculated for use in this analysis. The existing traffic volumes are provided in Appendix B. The peak hour traffic volumes and the total travel time savings are summarized in Table 7.

Where corridors were divided into separate segments, due to a goal other than improving end-to-end travel time along the corridor, the travel time savings for each segment are included in Table 7. For these corridors, the segment travel time savings were summed to calculate the total corridor travel time savings for use in the benefit/cost analysis.

The weekday corridor retiming projects provided a total travel time benefit (that is reduced travel time along) on 13 of 21 corridors (62\%) in the AM Peak Period and 15 of 21 corridors (71\%) in the PM Peak Period. The weekend corridor retiming projects provided a total travel time benefit over Saturday and Sunday on 5 of 6 corridors (83\%).

On average, the corridor retiming projects provided a 4\% reduction in total travel time on the study corridors.

Table 6: 2020/2021 Corridor Average Travel Times - Before and After Conditions

| Corridor No. | Road | AM Peak Period Average Travel Times (sec/veh) |  |  |  |  |  | PM Peak Period Average Travel Times (sec/veh) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Northbound/Eastbound |  |  | Southbound/Westbound |  |  | Northbound/Eastbound |  |  | Southbound/Westbound |  |  |
|  |  | Before (b) | After (a) | Reduction $(t=b-a)$ | Before (b) | After (a) | Reduction $(t=b-a)$ | Before (b) | After (a) | Reduction $(t=b-a)$ | Before (b) | After (a) | Reduction $(t=b-a)$ |
| 1 | Hiawassee Road | 228 | 242 | (14) | 261 | 246 | 15 | 285 | 289 | (4) | 249 | 246 | 3 |
| 2 | Metrowest Boulevard | 92 | 90 | 2 | 107 | 84 | 23 | 117 | 93 | 24 | 96 | 96 | 0 |
| 3 | Universal Boulevard | 186 | 230 | (44) | 186 | 200 | (14) | 150 | 144 | 6 | 165 | 153 | 12 |
| 4 | Millenia Blvd | 120 | 99 | 21 | 140 | 111 | 29 | 120 | 114 | 6 | 178 | 129 | 49 |
| 5 | Vineland Road | 51 | 36 | 15 | 51 | 39 | 12 | 66 | 66 | 0 | 57 | 54 | 3 |
| 6 | Apopka Vineland Road | 300 | 303 | (3) | 327 | 327 | 0 | 351 | 306 | 45 | 312 | 321 | (9) |
| 7 | Conroy Windermere Road | 168 | 183 | (15) | 270 | 225 | 45 | 276 | 201 | 75 | 330 | 278 | 52 |
| $8^{1}$ | Good Homes Road/Old Winter Garden | 723 | 686 | 38 | 542 | 555 | (14) | 666 | 624 | 42 | 629 | 603 | 26 |
| 8A | SR 408 WB Ramps to Kirkman Road | 492 | 455 | 38 | 327 | 345 | (18) | 411 | 399 | 12 | 389 | 387 | 2 |
| 8B | Kirkman Road to Ferguson Drive | 231 | 231 | 0 | 215 | 210 | 5 | 255 | 225 | 30 | 240 | 216 | 24 |
| 91 | West Road/Clarcona Ocoee Road | 678 | 678 | 0 | 651 | 633 | 18 | 666 | 629 | 38 | 672 | 591 | 81 |
| 9A | SR 408 WB Ramps to Kirkman Road | 417 | 396 | 21 | 411 | 384 | 27 | 420 | 407 | 14 | 381 | 318 | 63 |
| $9 B$ | Kirkman Road to Ferguson Drive | 261 | 282 | (21) | 240 | 249 | (9) | 246 | 222 | 24 | 291 | 273 | 18 |
| $10^{1}$ | Beggs Road/Edgewater Drive | 276 | 261 | 15 | 276 | 243 | 33 | 272 | 300 | (29) | 279 | 273 | 6 |
| 10A | Overland Road to Mott Avenue | 165 | 153 | 12 | 177 | 171 | 6 | 176 | 171 | 5 | 156 | 177 | (21) |
| 10B | Mott Avenue to All American Boulevard | 111 | 108 | 3 | 99 | 72 | 27 | 96 | 129 | (33) | 123 | 96 | 27 |
| 11 | John Young Parkway | 318 | 255 | 63 | 324 | 189 | 135 | 298 | 279 | 19 | 387 | 314 | 74 |
| $12^{2}$ | SR 426 | 306 | 303 | 3 | 272 | 270 | 2 | 294 | 264 | 30 | 255 | 261 | (6) |
| $13^{2}$ | SR 434 | 522 | 518 | 5 | 507 | 468 | 39 | 471 | 480 | (9) | 481 | 474 | 7 |
| $14^{2}$ | US17/92 | 120 | 119 | 2 | 114 | 81 | 33 | 108 | 141 | (33) | 84 | 104 | (20) |
| $15^{2}$ | SR 436 | 378 | 348 | 30 | 399 | 396 | 3 | 351 | 324 | 27 | 354 | 339 | 15 |
| $16^{2}$ | SR 434 | 371 | 393 | (23) | 462 | 447 | 15 | 405 | 381 | 24 | 431 | 417 | 14 |
| $17^{3}$ | Sand Lake Road (Weekday) | 156 | 162 | (6) | 126 | 128 | (2) | 141 | 135 | 6 | 120 | 114 | 6 |
|  | Sand Lake Road (Weekend) | 126 | 126 | 0 | 116 | 108 | 8 | 116 | 119 | (3) | 115 | 104 | 11 |
| 18 | US 192 | 603 | 492 | 111 | 576 | 537 | 39 | 642 | 614 | 28 | 669 | 573 | 96 |
| 19 | CR 532 | 354 | 414 | (60) | 375 | 363 | 12 | 587 | 381 | 205 | 522 | 414 | 108 |
| 20 | Good Homes Road | 54 | 60 | (6) | 48 | 51 | (3) | 63 | 60 | 3 | 60 | 63 | (3) |
| 21 | Pine Hills Road | 419 | 393 | 26 | 405 | 384 | 21 | 588 | 462 | 126 | 471 | 420 | 51 |
| 22 | Maitland Avenue | 176 | 152 | 24 | 222 | 187 | 35 | 246 | 255 | (9) | 207 | 162 | 45 |
| 23 | Hiawassee Road (Apopka) | 51 | 63 | (12) | 60 | 33 | 27 | 84 | 75 | 9 | 84 | 122 | (38) |
| 24 | Hiawassee Road (Orange) | 738 | 816 | (78) | 725 | 746 | (22) | 966 | 906 | 60 | 775 | 816 | (42) |
| 25 | Park Avenue | 102 | 126 | (24) | 99 | 132 | (33) | 102 | 101 | 2 | 105 | 132 | (27) |
| 26 | Vick Road | 92 | 102 | (11) | 93 | 99 | (6) | 81 | 99 | (18) | 105 | 102 | 3 |

Corridor was split into multiple parts for analysis based on corridor goals. ${ }^{2}$ Retimed only for the weekend. ${ }^{3}$ Retimed for the weekday and weekend.
Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively

Table 7: Total Travel Time Savings

AM Peak Period


26 Vick Road
Corridor was split into multiple parts for analysis based on corridor goals. 2Retimed only for the weekend 3Retimed for the weekday and weekend 788
 $P T=S T / \sum(b i * v i)$
*Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively Performance Measures

## Level of Travel Time Reliability

The segment-level travel time reliability was computed in accordance with the guidance in the MAP-21 Level of Travel Time Reliability (LOTTR) metric for each corridor evaluated for corridor travel time. This methodology is in alignment with the MetroPlan Orlando Segment-Level Performance Measures analysis previously completed in 2020. The reliability index is calculated as:

$$
\text { Reliability Index }=\frac{80 \text { th Percentile Travel Time }}{50 \text { th Percentile Travel Time }}
$$

The following time periods are used to compute the LOTTR:

- Weekday AM Peak (6-10 AM)
- Weekday PM Peak (4-8 PM)
- Weekday Midday (10 AM-4 PM)
- Weekends (6 AM-8 PM)

The LOTTR metric considers a segment reliable if the reliability index is less than 1.5 for all four time periods listed above. For the purposes of this analysis, the maximum (i.e., worst) reliability index across the time periods of interest and two directions of travel is reported for each segment in Table 8. For example, if a corridor was only retimed for the weekend, the time period of interest would only include the weekend time period and only the weekend time period would be used to calculate the LOTTR.

20 of 27 corridors (74\%) now have reliable travel times during the periods of interest as compared to the 19 of 27 corridors (70\%) that had reliable travel times before and after the signal retiming.

Table 8: Reliability Summary

| Corridor No. | Road | LOTTR |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Maximum Before LOTTR | Maximum After LOTTR | Before Reliable? | After Reliable? |
| 1 | Hiawassee Road | 1.21 | 1.31 | Reliable | Reliable |
| 2 | Metrowest Boulevard | 1.34 | 1.46 | Reliable | Reliable |
| 3 | Universal Boulevard | 1.30 | 1.41 | Reliable | Reliable |
| 4 | Millenia Blvd | 1.43 | 1.49 | Reliable | Reliable |
| 5 | Vineland Road | 1.65 | 2.00 | Unreliable | Unreliable |
| 6 | Apopka Vineland Road | 1.15 | 1.16 | Reliable | Reliable |
| 7 | Conroy Windermere Road | 1.48 | 1.51 | Reliable | Unreliable |
| $8^{1}$ | Good Homes Road/Old Winter Garden Road | 1.16 | 1.24 | Reliable | Reliable |
| 8A | SR 408 WB Ramps to Kirkman Road | 1.15 | 1.30 | Reliable | Reliable |
| 8B | Kirkman Road to Ferguson Drive | 1.16 | 1.17 | Reliable | Reliable |
| 91 | West Road/Clarcona Ocoee Road | 1.27 | 1.25 | Reliable | Reliable |
| 9A | SR 408 WB Ramps to Kirkman Road | 1.22 | 1.22 | Reliable | Reliable |
| 9 B | Kirkman Road to Ferguson Drive | 1.33 | 1.28 | Reliable | Reliable |
| $10^{1}$ | Beggs Road/Edgewater Drive | 1.51 | 1.55 | Unreliable | Unreliable |
| 10A | Overland Road to Mott Avenue | 1.46 | 1.25 | Reliable | Reliable |
| 10B | Mott Avenue to All American Boulevard | 1.56 | 1.84 | Unreliable | Unreliable |
| 11 | John Young Parkway | 1.21 | 1.30 | Reliable | Reliable |
| $12^{2}$ | SR 426 | 1.14 | 1.20 | Reliable | Reliable |
| $13^{2}$ | SR 434 | 1.12 | 1.16 | Reliable | Reliable |
| $14^{2}$ | US17/92 | 1.59 | 1.41 | Unreliable | Reliable |
| $15^{2}$ | SR 436 | 1.23 | 1.22 | Reliable | Reliable |
| $16^{2}$ | SR 434 | 1.21 | 1.34 | Reliable | Reliable |
| 173 | Sand Lake Road (Weekday) | 1.31 | 1.27 | Reliable | Reliable |
|  | Sand Lake Road (Weekend) | 1.17 | 1.21 | Reliable | Reliable |
| 18 | US 192 | 1.19 | 1.17 | Reliable | Reliable |
| 19 | CR 532 | 1.48 | 1.61 | Reliable | Unreliable |
| 20 | Good Homes Road | 1.39 | 1.40 | Reliable | Reliable |
| 21 | Pine Hills Road | 1.21 | 1.18 | Reliable | Reliable |
| 22 | Maitland Avenue | 1.33 | 1.43 | Reliable | Reliable |
| 23 | Hiawassee Road (Apopka) | 1.88 | 1.81 | Unreliable | Unreliable |
| 24 | Hiawassee Road (Orange) | 1.11 | 1.14 | Reliable | Reliable |
| 25 | Park Avenue | 1.40 | 1.55 | Reliable | Unreliable |
| 26 | Vick Road | 1.59 | 1.52 | Unreliable | Unreliable |

[^2]2020 - 2021 Travel Time Study \& Benefit Cost Analysis Performance Measures

## Fuel Consumption and Emissions

Reductions in fuel consumption and vehicle emissions are directly related to corridor travel time savings. These reductions are determined using the relationships shown in Table 9. Considering only the metrics for peak period corridor travel time, the 2020/2021 retiming program is estimated to reduce fuel consumption by approximately 121,554 gallons per year and reduce carbon dioxide emissions by 1,179 tons per year. These reductions correspond to a combined savings of approximately $\$ 287,281$ per year.

Table 9: Fuel Consumption and Emissions Values

| Measure | Unit Value | Source |
| :---: | :---: | :--- |
| Fuel Consumption | 0.87 gallons/hour of delay | FHWA (2010). Quantifying <br> Benefits of Traffic Signal <br> Retiming |
| Cost of Fuel <br> (FL - 2020 Avg.) | $\$ 2.15 /$ gallon | U.S. Energy Information <br> Administration |
| Emissions | 19.4 lbs of $\mathrm{CO}_{2} /$ gallon | FHWA (2010). Quantifying <br> Benefits of Traffic Signal <br> Retiming |
| Cost of Emissions | $\$ 22 /$ ton of $\mathrm{CO}_{2}$ | FHWA (2010). Quantifying <br> Benefits of Traffic Signal <br> Retiming |

## Intersection Delay

The total intersection delay was calculated for school intersections at the five (5) schools listed in Table 10 during school drop-off/pick-up times using field-collected queue observations and for all intersections during the peak-hour using CV data. Field-collected queue studies were used to calculate intersection delay for the school drop-off/pick-up times to ensure that before/after data would be available for these intersections while the CV-based methodology for intersection delay was being developed.

## School Intersection Delay (Queue Study)

Intersection control delay for motorists was calculated for applicable intersections according to the procedure outlined in the FDOT MUTS Chapter 7.4. Intersection control delay data was collected for the morning peak period from 7:00 to 9:00 AM and the afternoon peak period from 4:00 to 6:00 PM on Tuesdays, Wednesdays or Thursdays for each roadway included in the queue study. Intersection control delay was calculated for the peak hour within the defined two hour interval for each intersection.

The FDOT MUTS Chapter 7.4 methodology for calculating intersection delay involves a procedure of counting the number of vehicles that are queued at the intersection on each leg at consistent intervals. Additionally, the number of vehicles arriving at the intersection on each Performance Measures
leg is recorded. These two counts allow queueing formulas to be used to estimate the average time in queue vehicles approaching the intersection experience on each leg. An additional factor is added to the time in queue to account for acceleration and deceleration delays, resulting from queueing. The delay on each approach is weighted by the number of vehicles recorded on the approach to calculate the overall average intersection delay. The results are shown by corridor and intersection in Table 10. A summary of the Interesction Delay Studies for each intersection is included in Appendix C.

Following the retiming efforts, intersection delay was reduced at 1 of 5 intersections (20\%) during the AM peak period and at 2 of 5 intersections (40\%) during the PM peak period. Of the three intersections that experienced an increase in delay, none increased by more than 30 seconds.

## Peak-Period Intersection Delay (CV Data)

Peak-period intersection delay was calculated using CV data for all intersections along the retimed corridors. Total driver intersection delay was calculated by weighting the average driver delay for each approach or movement by the count of vehicles. The results are shown in Table 11.

Following the retiming efforts, total intersection delay for drivers was reduced at 91 of 188 intersections (48\%) during the AM peak period and at 96 of 188 intersections (51\%) during the PM peak period.

Table 10: School Intersection Delay

| Corridor No. | School | Intersection | Before Collection Date | Implementation Date | After Collection Date | AM Peak Period Intersection Delay (sec/veh) |  |  | PM Peak Period Intersection Delay (sec/veh) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Before | After | Reduction | Before | After | Reduction |
|  |  |  |  |  |  | (b) | (a) | ( $\mathrm{t}=\mathrm{b}-\mathrm{a}$ ) | (b) | (a) | $(\mathrm{t}=\mathrm{b}-\mathrm{a})$ |
| 6 | Olympia High School | Apopka Vineland Rd \& School Entrance | 2/24/2021 | 3/1/2021 | 3/31/2021 | 24 | 34 | (10) | 16 | 9 | 7 |
| 12 | Trinity Prepratory School | SR 426 \& Trinity Prep Ln | 2/4/2021 | 2/8/2021 | 3/31/2021 | 9 | 27 | (17) | 11 | 15 | (5) |
| 15 | Forrest Lake Elementary School | SR 436 \& Post Lake PI/Education Loop | 2/16/2021 | 3/8/2021 | 4/14/2021 | 7 | 8 | (1) | 11 | 12 | (1) |
| 17 | Forrest City Elementary School | Sand Lake Rd \& School Entrance | 2/16/2021 | 3/8/2021 | 4/28/2021 | 17 | 22 | (6) | 36 | 39 | (3) |
| 17 | Lake Brantley High School | Sand Lake Rd \& School Entrance | 2/16/2021 | 3/8/2021 | 4/28/2021 | 24 | 16 | 9 | 33 | 27 | 6 |

Table 11: Peak-Period Intersection Delay

| Int ID | Intersection Name | Average Intersection Delay (sec/veh) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AM (7-9 AM) |  |  | PM (4-6 PM) |  |  |
|  |  | Before | After | $\triangle$ | Before | After | $\triangle$ |
| 1_1 | Hiawassee Rd \& Mardell Ct | 3.1 | 3.3 | (0.2) | 3.9 | 3.4 | 0.5 |
| 1_2 | Hiawassee Rd \& Hunterdon Dr | 3.0 | 3.0 | 0.0 | 3.1 | 3.1 | (0.0) |
| 1_3 | Hiawassee Rd \& Westpointe Blvd | 22.8 | 25.6 | (2.8) | 38.4 | 33.8 | 4.6 |
| 1_4 | Hiawassee Rd \& Turkey Lake Rd | 2.0 | 3.4 | (1.5) | 6.0 | 6.4 | (0.5) |
| 1_5 | Hiawassee Rd \& Metrowest Blvd | 11.3 | 13.3 | (2.0) | 22.0 | 25.5 | (3.5) |
| 1_6 | Hiawassee Rd \& Seminole Rd | 1.9 | 1.9 | 0.0 | 2.2 | 2.6 | (0.4) |
| 1_7 | Hiawassee Rd \& Raleigh St | 16.8 | 20.1 | (3.4) | 31.4 | 32.1 | (0.7) |
| 2_1 | Metrowest Blvd \& Metrocenter Blvd | 28.7 | 17.1 | 11.6 | 14.1 | 19.0 | (4.9) |
| 2_2 | Metrowest Blvd \& Wilshire Dr | 3.6 | 3.3 | 0.3 | 13.2 | 8.2 | 5.0 |
| 3_1 | Universal Blvd \& 14 EB Off Ramp | 33.0 | 30.1 | 2.9 | 22.0 | 24.1 | (2.1) |
| 3_2 | Universal Blvd \& I 4 WB Off Ramp | 0.1 | 3.0 | (2.9) | 1.1 | 1.7 | (0.6) |
| 3_3 | Universal Blvd \& Parking Exit | 5.8 | 11.7 | (5.9) | 8.0 | 7.4 | 0.6 |
| 3_4 | Universal Blvd \& Hollywood Way | 19.6 | 20.2 | (0.6) | 44.7 | 41.5 | 3.1 |
| 3_5 | Universal Blvd \& Universal Parking | 4.8 | 5.8 | (1.0) | 3.0 | 5.4 | (2.4) |
| 3_6 | Universal Blvd \& Major Blvd | 5.4 | 8.0 | (2.6) | 6.6 | 7.6 | (1.0) |
| 3_7 | Universal Blvd \& Loews Portofino Bay Hotel | 7.4 | 12.1 | (4.7) | 11.5 | 12.8 | (1.3) |
| 4_1 | Millenia Blvd \& Radebaugh Way | 19.5 | 14.4 | 5.0 | 37.9 | 21.9 | 16.0 |
| 4_2 | Millenia Blvd \& Millenia Lakes Blvd | 1.7 | 2.0 | (0.3) | 3.4 | 3.4 | 0.1 |
| 4_3 | Millenia Blvd \& Topiary Dr | 3.0 | 3.3 | (0.3) | 5.1 | 4.6 | 0.5 |
| 4_4 | Millenia Blvd \& Conservatory Ln | 11.8 | 8.6 | 3.2 | 32.6 | 32.1 | 0.4 |
| 5_1 | Vineland Rd \& Radebaugh Way | 9.5 | 10.2 | (0.7) | 20.5 | 28.0 | (7.6) |
| 5_2 | Vineland Rd \& Walden Cr | 4.4 | 3.6 | 0.8 | 3.4 | 3.2 | 0.2 |
| 6_1 | Apopka Vineland Rd \& Bay Side Dr | 4.2 | 5.5 | (1.3) | 4.4 | 3.9 | 0.5 |
| 6_2 | Apopka Vineland Rd \& Woodbreeze Blvd | 4.8 | 4.7 | 0.1 | 3.3 | 6.6 | (3.3) |
| 6_3 | Apopka Vineland Rd \& Horizon Cr | 2.6 | 2.5 | 0.1 | 2.5 | 4.0 | (1.5) |
| 6_4 | Apopka Vineland Rd \& CR 439 | 44.7 | 34.1 | 10.6 | 48.9 | 31.1 | 17.9 |
| 6_5 | Apopka Vineland Rd \& Olympia HS | 5.4 | 5.6 | (0.2) | 4.2 | 4.3 | (0.1) |
| 6_7 | Apopka Vineland Rd \& Westover Roberts Rd | 4.6 | 2.5 | 2.1 | 7.9 | 3.6 | 4.3 |
| 6_8 | Apopka Vineland Rd \& Steer Lake Rd | 12.5 | 9.5 | 3.0 | 20.0 | 29.1 | (9.1) |
| 7_1 | Conroy Windermere Rd \& Shopping Center | 3.2 | 5.0 | (1.8) | 24.5 | 15.4 | 9.0 |
| 7_2 | Conroy Windermere Rd \& Lincoln Ave | 5.1 | 9.3 | (4.2) | 6.2 | 9.1 | (2.9) |
| 7_3 | Conroy Windermere Rd \& Dr. Phillips Blvd | 18.1 | 15.8 | 2.3 | 25.0 | 23.2 | 1.8 |
| 7_4 | Conroy Windermere Rd \& CR 439 | 14.2 | 12.6 | 1.6 | 23.1 | 17.6 | 5.5 |
| 7_5 | Conroy Windermere Rd \& Conroy Club Dr | 9.4 | 6.1 | 3.3 | 46.7 | 22.9 | 23.8 |
| 8A_1 | Good Homes Rd \& SR 408 WB Off Ramp | 6.3 | 6.5 | (0.2) | 11.6 | 12.4 | (0.9) |
| 8A_2 | Good Homes Rd \& SR 408 EB Ramp | 5.6 | 4.8 | 0.8 | 11.3 | 17.0 | (5.6) |
| 8A_3 | Old Winter Garden Rd \& Good Homes Rd | 25.5 | 57.4 | (31.9) | 52.5 | 50.2 | 2.3 |
| 8A_4 | Good Homes Rd \& Apopka Vineland Rd | 14.6 | 13.9 | 0.7 | 28.0 | 21.2 | 6.7 |
| 8A_5 | Good Homes Rd \& Killington Way | 3.4 | 2.0 | 1.3 | 0.3 | 0.3 | (0.0) |
| 8A_6 | Good Homes Rd \& Steer Lake Rd | 3.6 | 3.3 | 0.2 | 3.6 | 3.6 | (0.0) |
| 8A_7 | Good Homes Rd \& Dorscher Rd | 3.7 | 4.0 | (0.4) | 5.2 | 5.4 | (0.2) |
| 8A_8 | Good Homes Rd \& Hiwassee Rd | 40.7 | 44.2 | (3.5) | 53.3 | 88.2 | (34.8) |
| 8A_9 | Good Homes Rd \& Powers Dr | 12.8 | 30.2 | (17.4) | 21.3 | 29.3 | (8.1) |
| 8B_1 | Good Homes Rd \& Nome Dr | 12.7 | 15.5 | (2.8) | 20.5 | 25.8 | (5.3) |
| 8B_4 | Good Homes Rd \& SR 408 WB | 5.0 | 3.8 | 1.2 | 3.0 | 3.0 | 0.0 |
| 8B_5 | Good Homes Rd \& Ferguson Dr | 10.9 | 10.6 | 0.3 | 22.2 | 24.8 | (2.6) |
| 9A_1 | Clarcona Ocoee Rd \& SR 437 | 28.4 | 36.1 | (7.7) | 38.9 | 40.9 | (2.0) |
| 9A_2 | Clarcona Ocoee Rd \& SR 429 SB On Ramp | 7.1 | 5.9 | 1.2 | 5.4 | 4.1 | 1.4 |
| 9A_3 | Clarcona Ocoee Rd \& SR 429 NB Off Ramp | 3.1 | 3.1 | 0.0 | 10.3 | 3.2 | 7.1 |
| 9A_4 | Clarcona Ocoee Rd \& Lakewood Ave | 3.8 | 4.0 | (0.2) | 4.4 | 1.1 | 3.2 |
| 9A_5 | Clarcona Ocoee Rd \& Adair St | 3.0 | 4.5 | (1.5) | 3.9 | 2.8 | 1.1 |
| 9A_6 | Clarcona Ocoee Rd \& Clark Rd | 13.0 | 8.1 | 4.9 | 13.4 | 18.8 | (5.3) |
| 9B_1 | Clarcona Ocoee Rd \& Beggs Rd | 1.6 | 1.8 | (0.2) | 3.4 | 3.7 | (0.3) |
| 9B_2 | Clarcona Ocoee Rd \& Hiwassee Rd | 29.6 | 36.0 | (6.4) | 41.3 | 40.0 | 1.3 |
| 9B_3 | Clarcona Ocoee Rd \& Powers Dr | 2.8 | 2.6 | 0.1 | 4.4 | 5.2 | (0.8) |
| 9B_4 | Clarcona Ocoee Rd \& Lake Sparling Rd | 4.2 | 7.8 | (3.6) | 3.5 | 3.4 | 0.2 |
| 9B_5 | Clarcona Ocoee Rd \& Pine Hills Rd | 20.4 | 18.8 | 1.6 | 45.2 | 40.6 | 4.6 |
| 9B_6 | Clarcona Ocoee Rd \& Rose Ave | 6.8 | 6.8 | (0.0) | 8.8 | 9.1 | (0.4) |
| 10A_1 | Beggs Rd \& Overland Rd | 5.6 | 10.2 | (4.7) | 6.4 | 9.3 | (3.0) |
| 10A_2 | Beggs Rd \& Pine Hills Rd | 22.7 | 25.0 | (2.3) | 22.2 | 27.5 | (5.3) |
| 10A_3 | Beggs Rd \& Rose Ave | 10.2 | 18.5 | (8.4) | 8.7 | 14.6 | (5.9) |
| 10A_4 | Beggs Rd \& Mott Rd | 14.6 | 21.6 | (7.0) | 11.9 | 8.3 | 3.6 |
| 10B_1 | Beggs Rd \& Magnolia Holmes Rd | 7.9 | 2.0 | 5.9 | 18.9 | 11.3 | 7.6 |
| 10B_2 | Beggs Rd \& Clarcona Ocoee Rd | 18.5 | 16.5 | 2.0 | 15.4 | 26.2 | (10.8) |
| 10B_3 | Beggs Rd \& All American Blvd | 20.9 | 15.3 | 5.6 | 22.6 | 13.4 | 9.2 |
| 11_1 | John Young Parkway \& 35th St | 16.5 | 25.9 | (9.4) | 28.4 | 28.9 | (0.5) |
| 11_4 | John Young Parkway \& L.B. Mc Leod Rd | 50.5 | 30.8 | 19.7 | 35.5 | 23.8 | 11.7 |
| 11_5 | John Young Parkway \& Clear Way | 5.4 | 3.0 | 2.4 | 18.9 | 11.0 | 7.9 |
| 11_6 | John Young Parkway \& Ramp To John Young Pkwy | 3.5 | 3.0 | 0.5 | 6.8 | 4.2 | 2.7 |
| 11_7 | John Young Parkway \& Shopping Center Drway | 4.1 | 3.0 | 1.1 | 4.2 | 3.0 | 1.2 |
| 11_8 | John Young Parkway \& Raleigh St | 46.7 | 6.7 | 40.0 | 25.8 | 8.6 | 17.2 |
| 11_10 | John Young Parkway \& Orange Center Blvd | 11.5 | 3.1 | 8.4 | 8.0 | 7.6 | 0.5 |
| 11_11 | John Young Parkway \& C R Smith St | 3.0 | 0.4 | 2.6 | 3.0 | 3.0 | (0.0) |

Table 11 Cont.: Peak-Period Intersection Delay

| Int ID | Intersection Name | Average Intersection Delay (sec/veh) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AM (7-9 AM) |  |  | PM (4-6 PM) |  |  |
|  |  | Before | After | $\triangle$ | Before | After | $\triangle$ |
| 12_1 | SR 426 \& Old Howell Branch Rd | 2.5 | 2.3 | 0.2 | 2.4 | 1.9 | 0.6 |
| 12_2 | SR 426 \& Hall Rd | 36.1 | 37.6 | (1.5) | 27.6 | 26.7 | 0.9 |
| 12_3 | SR 426 \& Trinity Prep Ln | 4.4 | 4.4 | (0.0) | 3.0 | 4.4 | (1.4) |
| 12_4 | SR 426 \& S Tuskawilla Rd | 21.7 | 19.0 | 2.7 | 19.4 | 15.0 | 4.4 |
| 12_5 | SR 426 \& Clayton Crossing Way | 17.7 | 21.7 | (4.0) | 17.8 | 16.6 | 1.2 |
| 12_6 | SR 426 \& SR 417 SB On Ramp | 3.0 | 3.0 | 0.0 | 2.5 | 3.0 | (0.5) |
| 12_7 | SR 426 \& Seminole Expressway NB Ramp | 1.6 | 1.4 | 0.2 | 1.4 | 1.4 | (0.0) |
| 12_8 | SR 426 \& Dean Rd | 11.7 | 11.4 | 0.3 | 11.5 | 10.5 | 1.0 |
| 13_1 | SR 434 \& Manor Ave | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13_3 | SR 434 \& Springs Blvd | 4.4 | 4.3 | 0.1 | 4.4 | 4.4 | 0.0 |
| 13_4 | SR 434 \& Spring Centre Blvd | 2.0 | 2.0 | 0.0 | 2.0 | 2.0 | 0.0 |
| 13_5 | SR 434 \& Douglas Ave | 35.0 | 28.7 | 6.3 | 26.2 | 24.1 | 2.1 |
| 13_6 | SR 434 \& I-4 Ramps | 3.0 | 3.0 | 0.0 | 0.0 | 3.0 | (3.0) |
| 13_7 | SR 434 \& I-4 Ramps | 13.5 | 14.3 | (0.8) | 12.5 | 9.4 | 3.1 |
| 13_8 | SR 434 \& Raymond Ave | 3.0 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 |
| 13_9 | SR 434 \& Roxboro Rd | 3.0 | 3.7 | (0.7) | 3.0 | 3.0 | 0.0 |
| 13_10 | SR 434 \& Tollgate Trl | 3.0 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 |
| 13_11 | SR 434 \& Palm Spings Rd | 18.8 | 4.5 | 14.3 | 16.3 | 5.3 | 11.0 |
| 13_12 | SR 434 \& Range Line Rd | 7.4 | 6.0 | 1.4 | 8.7 | 12.7 | (4.0) |
| 13_13 | SR 434 \& Florida Central Pkwy | 7.6 | 7.4 | 0.1 | 6.0 | 4.5 | 1.5 |
| 13_14 | SR 434 \& CR 427 | 35.6 | 24.5 | 11.2 | 26.6 | 18.4 | 8.2 |
| 13_15 | SR 434 \& S Grant St | 2.4 | 2.5 | (0.2) | 2.8 | 3.8 | (1.0) |
| 13_16 | SR 434 \& S Wayman St | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 |
| 14_1 | US 17/92 \& Orange Blvd | 20.0 | 11.2 | 8.8 | 13.3 | 14.5 | (1.2) |
| 14_2 | US 17/92 \& Orange Blvd | 16.0 | 17.0 | (1.0) | 12.6 | 21.3 | (8.7) |
| 14_3 | US 17/92 \& SR 15 To I 4 | 7.4 | 7.1 | 0.2 | 5.6 | 5.5 | 0.1 |
| 15_1 | SR 436 \& Sand Lake Rd | 4.2 | 3.7 | 0.4 | 3.3 | 4.4 | (1.1) |
| 15_2 | SR 436 \& Balmy Beach Dr | 13.2 | 7.9 | 5.3 | 10.4 | 7.4 | 2.9 |
| 15_3 | SR 436 \& Hunt Club Blvd | 12.8 | 9.1 | 3.8 | 12.1 | 6.7 | 5.5 |
| 15_4 | SR 436 \& Bear Lake Rd | 9.1 | 7.9 | 1.2 | 5.6 | 7.1 | (1.5) |
| 15_5 | SR 436 \& Harley Lester Ln | 3.0 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 |
| 15_6 | SR 436 \& Campus Loop | 3.2 | 1.9 | 1.3 | 2.7 | 2.7 | (0.0) |
| 15_7 | SR 436 \& Academy Dr | 4.3 | 6.2 | (1.9) | 3.1 | 3.7 | (0.6) |
| 15_8 | SR 436 \& McNeil Rd | 4.0 | 4.6 | (0.6) | 2.8 | 2.8 | 0.0 |
| 15_9 | SR 436 \& Maple St | 3.9 | 3.8 | 0.2 | 3.0 | 3.0 | 0.0 |
| 15_10 | SR 436 \& SR 434 | 48.6 | 43.5 | 5.0 | 40.2 | 28.9 | 11.3 |
| 15_11 | SR 436 \& Laurel St | 8.0 | 10.8 | (2.8) | 6.2 | 10.5 | (4.3) |
| 16_1 | SR 434 \& 414 Ramps | 2.8 | 2.3 | 0.5 | 1.0 | 1.3 | (0.3) |
| 16_2 | SR 434 \& 414 Ramps | 4.0 | 4.1 | (0.1) | 2.4 | 2.3 | 0.1 |
| 16_4 | SR 434 \& Lotus Landing Blvd | 3.0 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 |
| 16_5 | SR 434 \& Bunnell Rd | 16.9 | 17.7 | (0.8) | 19.0 | 17.7 | 1.3 |
| 16_6 | SR 434 \& Orange Ave | 12.8 | 13.9 | (1.1) | 14.8 | 10.0 | 4.8 |
| 16_7 | SR 434 \& SR436 | 25.3 | 30.5 | (5.2) | 20.4 | 23.5 | (3.1) |
| 16_8 | SR 434 \& Cape Cod Ln | 6.0 | 6.0 | 0.0 | 6.0 | 6.0 | 0.0 |
| 16_9 | SR 434 \& Sand Lake Rd | 6.4 | 5.4 | 1.0 | 4.6 | 4.6 | (0.1) |
| 16_10 | SR 434 \& Jamestown Blvd | 9.1 | 6.0 | 3.1 | 4.3 | 4.5 | (0.2) |
| 16_11 | SR 434 \& E Lake Brantley Dr | 5.9 | 6.5 | (0.6) | 5.0 | 5.2 | (0.2) |
| 17_1WD | Sand Lake Rd \& Oak Haven Dr | 9.4 | 6.8 | 2.6 | 4.8 | 4.0 | 0.8 |
| 17_2WD | Sand Lake Rd \& Hickory Dr | 7.1 | 7.2 | (0.1) | 6.2 | 3.4 | 2.8 |
| 17_3AWD | Sand Lake Rd \& Lake Brantley High School Drway | 9.5 | 7.8 | 1.7 | 3.9 | 3.6 | 0.3 |
| 17_4WD | Sand Lake Rd \& Lake Brantley High Back Entrance | 14.2 | 8.3 | 5.9 | 3.1 | 3.1 | 0.0 |
| 17_1WE | Sand Lake Rd \& Oak Haven Dr | 5.4 | 4.0 | 1.4 | 3.0 | 3.0 | 0.0 |
| 17_2WE | Sand Lake Rd \& Lake Brantley High School Drway | 5.9 | 5.8 | 0.1 | 4.6 | 3.0 | 1.6 |
| 17_3AWE | Sand Lake Rd \& Lake Brantley High School Drway | 4.5 | 3.9 | 0.6 | 2.9 | 1.2 | 1.6 |
| 17_4WE | Sand Lake Rd \& Lake Brantley High Back Entrance | 3.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 18_1 | US 192 \& SR 91 NB Off Ramp | 8.4 | 8.4 | 0.0 | 62.2 | 12.2 | 50.0 |
| 18_2 | US 192 \& Commerce center Dr | 16.5 | 10.1 | 6.4 | 24.9 | 41.2 | (16.3) |
| 18_3 | US 192 \& Old Canoe Creek Rd | 16.4 | 11.9 | 4.5 | 26.1 | 20.2 | 5.8 |
| 18_4 | US 192 \& Brown Chapel Rd | 30.4 | 18.8 | 11.6 | 23.8 | 24.9 | (1.1) |
| 18_5 | US 192 \& Big Lots | 3.5 | 1.2 | 2.2 | 3.9 | 4.8 | (0.9) |
| 18_6 | US 192 \& Budinger Ave | 13.7 | 9.9 | 3.8 | 8.3 | 19.2 | (10.8) |
| 18_7 | US 192 \& Tennessee Ave | 3.0 | 3.0 | 0.0 | 5.5 | 5.1 | 0.4 |
| 18_8 | US 192 \& CR 523 | 20.3 | 13.5 | 6.8 | 24.6 | 24.2 | 0.4 |
| 18_11 | US 192 \& Delaware Ave | 7.1 | 8.8 | (1.7) | 6.0 | 7.5 | (1.5) |
| 18_12 | US 192 \& CR 534 | 13.0 | 13.7 | (0.7) | 14.4 | 10.5 | 3.9 |
| 19_1 | CR 532 \& Masters Blvd | 10.9 | 9.1 | 1.8 | 17.5 | 11.2 | 6.4 |
| 19_2 | CR 532 \& Calder Blvd | 11.6 | 18.8 | (7.2) | 26.3 | 17.6 | 8.7 |
| 19_3 | CR 532 \& 4 WB Off Ramp | 48.4 | 46.4 | 2.0 | 37.9 | 23.2 | 14.6 |
| 19_4 | CR 532 \& CR 532 To I-4 | 18.5 | 54.1 | (35.6) | 22.7 | 11.6 | 11.0 |
| 19_5 | CR 532 \& Heritage Pass | 6.0 | 6.0 | 0.0 | 6.0 | 3.1 | 2.9 |
| 19_6 | CR 532 \& Legacy Village Dr | 3.0 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 |
| 19_7 | CR 532 \& Reuinion Blvd | 3.1 | 3.2 | (0.1) | 3.1 | 3.1 | (0.0) |
| 19_8 | CR 532 \& Old lake Wilson Rd | 28.0 | 25.1 | 2.8 | 98.8 | 90.9 | 7.9 |

Table 11 Cont.: Peak-Period Intersection Delay

| Int ID | Intersection Name | Average Intersection Delay (sec/veh) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AM (7-9 AM) |  |  | PM (4-6 PM) |  |  |
|  |  | Before | After | $\triangle$ | Before | After | $\triangle$ |
| 20_1 | Good Homes Rd \& Balboa Dr | 7.9 | 9.4 | (1.5) | 13.0 | 12.6 | 0.4 |
| 20_2 | Good Homes Rd \& E Orolando Ave | 8.2 | 7.8 | 0.4 | 10.0 | 7.7 | 2.4 |
| 21_1 | Pine Hills Rd \& Balboa Dr | 6.7 | 4.7 | 2.0 | 19.5 | 12.8 | 6.7 |
| 21_2 | Pine Hills Rd \& Dolores Dr | 5.3 | 6.0 | (0.7) | 6.7 | 6.0 | 0.7 |
| 21_3 | Pine Hills Rd \& Hernandes Dr | 4.2 | 4.5 | (0.3) | 6.1 | 6.0 | 0.1 |
| 21_4 | Pine Hills Rd \& Indialantic Dr | 24.9 | 4.4 | 20.4 | 27.7 | 6.3 | 21.4 |
| 21_5 | Pine Hills Rd \& SR 438 | 31.5 | 46.8 | (15.3) | 79.1 | 89.7 | (10.6) |
| 21_6 | Pine Hills Rd \& Belco Dr | 7.8 | 5.4 | 2.4 | 14.7 | 12.9 | 1.8 |
| 21_7 | Pine Hills Rd \& Londonderry Blvd | 4.7 | 6.1 | (1.4) | 9.4 | 3.1 | 6.3 |
| 21_8 | Pine Hills Rd \& Indian Hills Rd | 4.2 | 3.6 | 0.6 | 9.2 | 8.6 | 0.6 |
| 21_9 | Pine Hills Rd \& North Lane | 17.9 | 28.4 | (10.5) | 40.4 | 42.8 | (2.4) |
| 22_1 | Maitland Ave \& E Horatio Ave | 22.4 | 21.0 | 1.4 | 39.6 | 39.5 | 0.1 |
| 22_2 | Maitland Ave \& Sandspur Rd | 12.2 | 3.4 | 8.8 | 8.7 | 6.2 | 2.5 |
| 22_3 | Maitland Ave \& Marion Way | 3.5 | 4.3 | (0.8) | 6.8 | 22.0 | (15.2) |
| 22_4 | Maitland Ave \& SR 414 | 43.7 | 46.4 | (2.7) | 60.7 | 56.4 | 4.3 |
| 23_1 | Hiawassee Rd \& Edgewater Dr | 16.1 | 17.3 | (1.2) | 19.1 | 55.4 | (36.3) |
| 23_2 | Hiawassee Rd \& Walmart | 9.3 | 16.0 | (6.7) | 20.4 | 24.7 | (4.3) |
| 24_1 | Hiawassee Rd \& SR 408 EB | 5.0 | 9.2 | (4.2) | 11.3 | 6.4 | 5.0 |
| 24_2 | Hiawassee Rd \& SR 408 WB | 7.2 | 7.3 | (0.2) | 10.4 | 15.0 | (4.6) |
| 24_3 | Hiawassee Rd \& W Colonial Dr | 28.8 | 38.6 | (9.8) | 54.5 | 33.0 | 21.5 |
| 24_4 | Hiawassee Rd \& Orange County MultiCultural Center | 3.3 | 3.7 | (0.4) | 4.5 | 4.6 | (0.1) |
| 24_5 | Hiawassee Rd \& Vernon St | 12.6 | 17.8 | (5.2) | 18.8 | 28.1 | (9.3) |
| 24_6 | Hiawassee Rd \& Hennepin Blvd | 9.0 | 11.3 | (2.3) | 4.5 | 4.6 | (0.2) |
| 24_7 | Hiawassee Rd \& SR438 | 56.6 | 54.6 | 2.0 | 65.7 | 67.8 | (2.2) |
| 24_8 | Hiawassee Rd \& Super Beauty Depot | 3.4 | 4.6 | (1.2) | 11.3 | 9.5 | 1.7 |
| 24_9 | Hiawassee Rd \& Coral Cove Dr | 9.9 | 7.6 | 2.3 | 15.0 | 10.7 | 4.3 |
| 24_10 | Hiawassee Rd \& Hiawassee Oak Dr | 4.1 | 5.5 | (1.4) | 3.7 | 5.8 | (2.1) |
| 24_11 | Hiawassee Rd \& Clarcona Ocoee Rd | 27.7 | 34.6 | (6.9) | 42.2 | 50.9 | (8.7) |
| 24_12 | Hiawassee Rd \& Beggs Rd | 8.4 | 9.1 | (0.7) | 10.8 | 17.3 | (6.6) |
| 24_13 | Hiawassee Rd \& SR 414 EB Ramp | 11.1 | 12.7 | (1.6) | 4.8 | 4.9 | (0.0) |
| 24_14 | Hiawassee Rd \& SR 414 WB Ramp | 5.5 | 7.0 | (1.6) | 3.0 | 3.0 | 0.0 |
| 24_15 | Hiawassee Rd \& Wekiva High School | 9.0 | 7.7 | 1.3 | 3.0 | 3.0 | (0.0) |
| 25_1 | Park Ave \& E 5th St | 8.0 | 11.3 | (3.3) | 12.1 | 14.3 | (2.2) |
| 25_2 | Park Ave \& SR 500 | 35.2 | 27.6 | 7.5 | 60.1 | 48.8 | 11.4 |
| 26_1 | Vick Rd \& SR 500 | 33.7 | 27.8 | 5.9 | 43.8 | 38.2 | 5.6 |
| 26_2 | Vick Rd \& Edgewater Dr | 29.1 | 26.0 | 3.1 | 17.1 | 18.1 | (1.0) |

*Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively

## Signal Progression \& Stops and Slow Downs

Signal progression and the number of stops and slow downs are similar metrics that both determine a vehicle's "quality of progression." This is a measure of how smoothly a motorist is able to move along a coordinated signalized corridor.

Signal progression measures the portion of vehicles that stop or slow down at each intersection as they travel along the corridor. The results are reported in the percentage of time a vehicle is stopped (less than 5 mph ), slowed down ( 5 mph to 20 mph ), or continues (greater than 20 mph ) as it travels through each intersection. The AM peak period and PM peak period results are reported in Table 12 and Table 13, respectively.

The corridor retiming projects resulted in reducing the percentage of stops at intersections for 99 of 188 intersections (53\%) during the AM peak period and 81 of 188 intersections (43\%) during the $P M$ peak period.

The average number of stops and slow downs measures the average number of stops and slow downs a motorist makes when traveling along the entire length of a corridor. This metric differs from signal progression because it compares corridor wide operations as opposed to intersection level operations. Results are reported in Table 14.

The corridor retiming projects resulted in reducing the average number of stops for drivers at 17 of 27 corridors (63\%) during the AM peak period and 17 of 27 corridors (63\%) during the PM peak period.

| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 0\% | 50\% | 50\% | 0\% | 29\% | 71\% | 85\% | 4\% | 11\% | 84\% | 4\% | 12\% | 92\% | 4\% | 4\% | 92\% | 3\% | 5\% | 0\% | 10\% | 90\% | 0\% | 0\% | 100\% |
| 7\% | 14\% | 79\% | 0\% | 19\% | 81\% | 83\% | 4\% | 13\% | 84\% | 4\% | 12\% | 91\% | 4\% | 6\% | 84\% | 5\% | 11\% | 0\% | 14\% | 86\% | 0\% | 14\% | 86\% |
| 13\% | 20\% | 67\% | 13\% | 22\% | 66\% | 32\% | 7\% | 61\% | 33\% | 7\% | 60\% | 48\% | 9\% | 43\% | 47\% | 10\% | 43\% | 3\% | 23\% | 75\% | 2\% | 20\% | 78\% |
| 0\% | 25\% | 75\% | 0\% | 33\% | 67\% | 76\% | 7\% | 18\% | 75\% | 6\% | 19\% | 70\% | 6\% | 24\% | 74\% | 7\% | 19\% | 7\% | 23\% | 70\% | 8\% | 23\% | 69\% |
|  | - |  | - |  |  | 52\% | 13\% | 35\% | 56\% | 12\% | 33\% | 46\% | 6\% | 49\% | 44\% | 9\% | 47\% | 11\% | 35\% | 54\% | 11\% | 32\% | 57\% |
| 0\% | 27\% | 73\% | 0\% | 44\% | 56\% | 97\% | 2\% | 1\% | 96\% | 4\% | 1\% | 92\% | 4\% | 3\% | 92\% | 5\% | 2\% | 0\% | 35\% | 65\% | 0\% | 39\% | 61\% |
| 0\% | 42\% | 58\% | 0\% | 26\% | 74\% | 69\% | 5\% | 26\% | 44\% | 11\% | 45\% | 43\% | 3\% | 54\% | 41\% | 6\% | 53\% | 21\% | 32\% | 48\% | 17\% | 30\% | 53\% |
| 22\% | 14\% | 64\% | 21\% | 14\% | 65\% | 16\% | 21\% | 63\% | 15\% | 26\% | 59\% | 17\% | 50\% | 33\% | 18\% | 24\% | 58\% | 34\% | 10\% | 56\% | 46\% | 11\% | 43\% |
| 69\% | 11\% | 20\% | 83\% | 9\% | 8\% | 12\% | 30\% | 59\% | 6\% | 30\% | 64\% | 0\% | 64\% | 36\% | 4\% | 50\% | 46\% | 48\% | 8\% | 44\% | 61\% | 7\% | 32\% |
| 43\% | 17\% | 40\% | 27\% | 13\% | 60\% | 52\% | 13\% | 35\% | 35\% | 14\% | 51\% | 31\% | 5\% | 64\% | 28\% | 6\% | 66\% |  |  |  |  |  |  |
| 96\% | 1\% | 3\% | 84\% | 3\% | 13\% | 100\% | 0\% | 0\% | 77\% | 19\% | 4\% | 98\% | 1\% | 1\% | 96\% | 3\% | 1\% | - | - | - | - | - | - |
| - | - | - | - | - |  | 56\% | 8\% | 36\% | 43\% | 14\% | 43\% | 99\% | 1\% | 0\% | 98\% | 2\% | 0\% | 67\% | 25\% | 8\% | 73\% | 23\% | 4\% |
| 18\% | 35\% | 46\% | 13\% | 27\% | 60\% | 75\% | 3\% | 22\% | 72\% | 13\% | 15\% | 19\% | 16\% | 65\% | 15\% | 13\% | 72\% | 3\% | 25\% | 72\% | 4\% | 18\% | 78\% |
| 0\% | 79\% | 21\% | 3\% | 79\% | 18\% | 43\% | 10\% | 47\% | 41\% | 6\% | 53\% | 53\% | 9\% | 39\% | 63\% | 11\% | 26\% | 0\% | 11\% | 89\% | 0\% | 40\% | 60\% |
| - | - | - | - | - | - | 58\% | 25\% | 18\% | 45\% | 16\% | 39\% | 57\% | 5\% | 38\% | 50\% | 9\% | 41\% | 10\% | 20\% | 71\% | 18\% | 17\% | 65\% |
| 0\% | 49\% | 51\% | 1\% | 50\% | 49\% | 55\% | 9\% | 36\% | 44\% | 22\% | 34\% | 63\% | 5\% | 32\% | 60\% | 8\% | 31\% | 8\% | 50\% | 42\% | 1\% | 30\% | 69\% |
| 17\% | 10\% | 73\% | 34\% | 15\% | 51\% | 0\% | 33\% | 67\% | 0\% | 13\% | 88\% | 6\% | 54\% | 40\% | 6\% | 52\% | 43\% | 23\% | 19\% | 57\% | 25\% | 22\% | 53\% |
| 71\% | 9\% | 20\% | 90\% | 5\% | 5\% | 5\% | 47\% | 48\% | 3\% | 35\% | 62\% | - |  |  | - |  |  | 69\% | 16\% | 16\% | 79\% | 11\% | 10\% |
| 71\% | 6\% | 23\% | 80\% | 4\% | 16\% | 11\% | 33\% | 56\% | 4\% | 22\% | 75\% | 0\% | 14\% | 86\% | 0\% | 33\% | 67\% | 71\% | 6\% | 23\% | 78\% | 7\% | 15\% |
| 70\% | 7\% | 23\% | 47\% | 6\% | 47\% | 0\% | 63\% | 38\% | 4\% | 30\% | 65\% | 0\% | 43\% | 57\% | 0\% | 47\% | 53\% | 59\% | 6\% | 35\% | 59\% | 11\% | 30\% |
| - | - |  | - |  |  | 63\% | 9\% | 28\% | 63\% | 11\% | 26\% | 51\% | 8\% | 41\% | 55\% | 8\% | 38\% | 14\% | 37\% | 48\% | 16\% | 34\% | 50\% |
| 2\% | 19\% | 79\% | 2\% | 14\% | 83\% | 69\% | 6\% | 25\% | 79\% | 6\% | 15\% | 41\% | 14\% | 45\% | 64\% | 12\% | 24\% | 0\% | 47\% | 53\% | 0\% | 19\% | 81\% |
| 3\% | 9\% | 89\% | 3\% | 13\% | 83\% | 78\% | 6\% | 15\% | 94\% | 2\% | 4\% | 79\% | 7\% | 15\% | 90\% | 4\% | 6\% | 2\% | 41\% | 58\% | 3\% | 28\% | 68\% |
| 0\% | 15\% | 85\% | 10\% | 10\% | 80\% | 63\% | 9\% | 28\% | 64\% | 7\% | 28\% | 66\% | 8\% | 27\% | 66\% | 8\% | 27\% | 2\% | 26\% | 72\% | 4\% | 29\% | 67\% |
| 1\% | 25\% | 74\% | 1\% | 20\% | 80\% | 73\% | 12\% | 15\% | 76\% | 9\% | 15\% | 72\% | 8\% | 20\% | 82\% | 5\% | 13\% | 0\% | 19\% | 81\% | 0\% | 20\% | 80\% |
| 12\% | 13\% | 76\% | 14\% | 12\% | 74\% | 23\% | 15\% | 62\% | 32\% | 12\% | 56\% | 28\% | 9\% | 62\% | 21\% | 9\% | 70\% | 14\% | 13\% | 73\% | 28\% | 17\% | 56\% |
| - | - | - | - | - | - | 76\% | 8\% | 15\% | 69\% | 8\% | 23\% | 81\% | 6\% | 13\% | 83\% | 4\% | 14\% | 0\% | 38\% | 62\% | 0\% | 19\% | 80\% |
| 3\% | 21\% | 76\% | 3\% | 13\% | 83\% | 66\% | 6\% | 29\% | 73\% | 3\% | 24\% | 56\% | 8\% | 36\% | 61\% | 8\% | 31\% | 1\% | 3\% | 96\% | 0\% | 5\% | 95\% |
| 5\% | 25\% | 70\% | 4\% | 24\% | 72\% | 67\% | 9\% | 24\% | 77\% | 6\% | 17\% | 57\% | 11\% | 33\% | 74\% | 4\% | 22\% | - | - | - | - | - | - |
| 10\% | 15\% | 75\% | 8\% | 11\% | 81\% | 59\% | 6\% | 35\% | 59\% | 7\% | 35\% | 50\% | 7\% | 44\% | 45\% | 8\% | 48\% | 15\% | 13\% | 72\% | 15\% | 14\% | 71\% |
| 80\% | 4\% | 16\% | 87\% | 3\% | 10\% | 13\% | 0\% | 88\% | 0\% | 16\% | 84\% | 1\% | 23\% | 76\% | 1\% | 14\% | 85\% | 65\% | 10\% | 25\% | 68\% | 11\% | 21\% |
| 74\% | 4\% | 22\% | 50\% | 20\% | 29\% | 0\% | 36\% | 64\% | 4\% | 30\% | 66\% | 13\% | 17\% | 70\% | 9\% | 15\% | 76\% | 59\% | 9\% | 32\% | 73\% | 12\% | 15\% |
| 71\% | 11\% | 19\% | 73\% | 10\% | 17\% | 13\% | 18\% | 69\% | 8\% | 21\% | 71\% | 0\% | 2\% | 98\% | 0\% | 0\% | 100 | 28\% | 9\% | 62\% | 41\% | 15\% | 44\% |
| 68\% | 6\% | 27\% | 63\% | 5\% | 32\% | 5\% | 23\% | 72\% | 5\% | 20\% | 76\% | 22\% | 15\% | 63\% | 24\% | 14\% | 63\% | 50\% | 6\% | 45\% | 55\% | 10\% | 35\% |
| 58\% | 6\% | 36\% | 72\% | 4\% | 24\% | 17\% | 8\% | 75\% | 11\% | 7\% | 81\% | 0\% | 11\% | 89\% | 0\% | 9\% | 91\% | 43\% | 5\% | 52\% | 42\% | 7\% | 51\% |
| 59\% | 12\% | 29\% | 74\% | 11\% | 15\% | - | - | - | - | - | - | 12\% | 8\% | 80\% | 12\% | 8\% | 81\% | 61\% | 9\% | 30\% | 73\% | 7\% | 20\% |
| 49\% | 12\% | 39\% | 52\% | 9\% | 39\% |  | - | - |  | - |  | 9\% | 21\% | 70\% | 8\% | 20\% | 72\% | 66\% | 22\% | 13\% | 65\% | 21\% | 14\% |
| 16\% | 20\% | 63\% | 18\% | 18\% | 63\% |  |  |  | - | - | - |  |  |  | - | - |  | 21\% | 32\% | 47\% | 19\% | 14\% | 67\% |
| 30\% | 29\% | 41\% | 28\% | 45\% | 27\% | 18\% | 14\% | 68\% | 17\% | 12\% | 71\% | 0\% | 4\% | 96\% | 0\% | 9\% | 91\% | 36\% | 7\% | 56\% | 54\% | 6\% | 40\% |
| 81\% | 5\% | 14\% | 80\% | 4\% | 16\% | - | - | - | - | - | - | 1\% | 36\% | 63\% | 4\% | 22\% | 74\% | 81\% | 5\% | 13\% | 85\% | 6\% | 8\% |


| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 80\% | 6\% | 14\% | 78\% | 7\% | 15\% | 6\% | 30\% | 63\% | 5\% | 23\% | 72\% | 0\% | 31\% | 69\% | 4\% | 19\% | 77\% | 72\% | 8\% | 19\% | 66\% | 9\% | 25\% |
| 66\% | 7\% | 27\% | 64\% | 7\% | 29\% | 0\% | 17\% | 83\% | 1\% | 21\% | 78\% | 8\% | 13\% | 78\% | 3\% | 9\% | 89\% | 78\% | 9\% | 13\% | 76\% | 11\% | 13\% |
| 16\% | 11\% | 73\% | 24\% | 11\% | 65\% | 23\% | 14\% | 63\% | 13\% | 8\% | 79\% | 18\% | 10\% | 73\% | 10\% | 8\% | 83\% | 17\% | 13\% | 69\% | 15\% | 14\% | 71\% |
| 58\% | 20\% | 22\% | 36\% | 8\% | 55\% |  |  |  |  |  |  | 17\% | 19\% | 63\% | 15\% | 20\% | 65\% | 59\% | 15\% | 25\% | 34\% | 17\% | 49\% |
| 48\% | 13\% | 39\% | 47\% | 12\% | 41\% | 4\% | 7\% | 89\% | 1\% | 21\% | 78\% | 15\% | 22\% | 63\% | 9\% | 20\% | 70\% | 57\% | 14\% | 29\% | 45\% | 18\% | 37\% |
| 63\% | 17\% | 20\% | 66\% | 12\% | 22\% | 17\% | 9\% | 74\% | 20\% | 11\% | 70\% |  |  |  |  |  |  | 58\% | 13\% | 29\% | 59\% | 12\% | 29\% |
| 61\% | 13\% | 26\% | 62\% | 14\% | 23\% | 19\% | 27\% | 53\% | 23\% | 34\% | 43\% | 8\% | 10\% | 81\% | 7\% | 9\% | 84\% | 55\% | 16\% | 29\% | 50\% | 18\% | 33\% |
| 59\% | 8\% | 33\% | 56\% | 10\% | 34\% | 17\% | 13\% | 70\% | 11\% | 13\% | 76\% | - | - | - | - |  | - | 58\% | 10\% | 31\% | 74\% | 5\% | 21\% |
| 67\% | 11\% | 22\% | 69\% | 11\% | 20\% | 8\% | 7\% | 84\% | 6\% | 8\% | 86\% | 13\% | 26\% | 61\% | 6\% | 30\% | 64\% | 70\% | 6\% | 24\% | 69\% | 10\% | 21\% |
| 13\% | 14\% | 73\% | 20\% | 13\% | 68\% | 22\% | 21\% | 57\% | 18\% | 19\% | 63\% | 23\% | 11\% | 66\% | 11\% | 8\% | 82\% | 15\% | 14\% | 71\% | 24\% | 15\% | 61\% |
| 47\% | 28\% | 26\% | 57\% | 19\% | 24\% | - | - | - | - |  |  | 3\% | 15\% | 82\% | 3\% | 13\% | 84\% | 55\% | 17\% | 29\% | 53\% | 16\% | 31\% |
| 84\% | 7\% | 8\% | 77\% | 8\% | 14\% | 58\% | 11\% | 31\% | 60\% | 9\% | 31\% | 0\% | 0\% | 100 | 0\% | 0\% | 0\% | 88\% | 3\% | 9\% | 81\% | 7\% | 12\% |
| 81\% | 9\% | 10\% | 69\% | 10\% | 20\% | 5\% | 20\% | 75\% | 4\% | 22\% | 74\% |  |  |  | - |  |  | 58\% | 10\% | 32\% | 59\% | 12\% | 29\% |
| 78\% | 9\% | 13\% | 73\% | 11\% | 17\% | 8\% | 13\% | 79\% | 10\% | 16\% | 74\% | 0\% | 6\% | 94\% | 0\% | 20\% | 80\% | 67\% | 9\% | 24\% | 61\% | 10\% | 29\% |
| 33\% | 18\% | 49\% | 49\% | 18\% | 33\% | 17\% | 26\% | 57\% | 9\% | 14\% | 77\% | 9\% | 25\% | 66\% | 13\% | 15\% | 72\% | 41\% | 12\% | 47\% | 57\% | 7\% | 36\% |
| 23\% | 8\% | 68\% | 23\% | 13\% | 64\% | 9\% | 8\% | 83\% | 6\% | 6\% | 88\% | 13\% | 11\% | 76\% | 13\% | 13\% | 74\% | 26\% | 12\% | 62\% | 20\% | 13\% | 67\% |
| 71\% | 10\% | 19\% | 68\% | 10\% | 22\% |  |  |  |  |  |  | 8\% | 19\% | 73\% | 10\% | 23\% | 67\% | 86\% | 4\% | 10\% | 83\% | 5\% | 12\% |
| 13\% | 10\% | 76\% | 15\% | 11\% | 74\% | 18\% | 15\% | 67\% | 10\% | 9\% | 81\% | 22\% | 14\% | 64\% | 11\% | 9\% | 79\% | 16\% | 12\% | 72\% | 19\% | 11\% | 70\% |
| 78\% | 14\% | 8\% | 75\% | 17\% | 8\% | 7\% | 14\% | 80\% | 4\% | 15\% | 82\% | - | - | - | - | - | - | 76\% | 4\% | 21\% | 74\% | 5\% | 21\% |
| 83\% | 5\% | 12\% | 51\% | 13\% | 36\% | 6\% | 8\% | 86\% | 4\% | 11\% | 85\% | 6\% | 14\% | 79\% | 6\% | 17\% | 77\% | 86\% | 6\% | 8\% | 82\% | 8\% | 10\% |
| 33\% | 22\% | 45\% | 41\% | 16\% | 43\% | 17\% | 15\% | 68\% | 15\% | 15\% | 71\% | 20\% | 18\% | 63\% | 10\% | 18\% | 72\% | 35\% | 7\% | 58\% | 26\% | 10\% | 64\% |
| 84\% | 9\% | 7\% | 86\% | 7\% | 7\% | 0\% | 27\% | 73\% | 6\% | 12\% | 82\% | 7\% | 36\% | 58\% | 5\% | 37\% | 58\% | 79\% | 6\% | 15\% | 81\% | 7\% | 11\% |
| 70\% | 9\% | 21\% | 48\% | 15\% | 37\% | - | - | - | - | - | - | 4\% | 12\% | 83\% | 3\% | 19\% | 78\% | 55\% | 36\% | 9\% | 50\% | 32\% | 18\% |
| 41\% | 24\% | 34\% | 35\% | 21\% | 44\% | 16\% | 23\% | 61\% | 8\% | 24\% | 68\% | - | - | - | - | - |  | 25\% | 9\% | 66\% | 34\% | 12\% | 55\% |
| 48\% | 22\% | 30\% | 39\% | 24\% | 37\% | 6\% | 11\% | 82\% | 8\% | 18\% | 74\% | 13\% | 29\% | 58\% | 10\% | 28\% | 62\% | 36\% | 20\% | 45\% | 30\% | 17\% | 53\% |
| 68\% | 15\% | 17\% | 54\% | 28\% | 18\% | 19\% | 50\% | 31\% | 16\% | 34\% | 50\% | 7\% | 19\% | 74\% | 8\% | 15\% | 77\% | 71\% | 18\% | 11\% | 67\% | 16\% | 17\% |
| 44\% | 13\% | 43\% | 57\% | 11\% | 32\% | 4\% | 4\% | 93\% | 8\% | 4\% | 88\% | 13\% | 13\% | 75\% | 15\% | 15\% | 70\% | 66\% | 12\% | 22\% | 74\% | 9\% | 17\% |
| 66\% | 7\% | 27\% | 76\% | 7\% | 17\% | 25\% | 31\% | 44\% | 19\% | 32\% | 50\% | - | - | - | - | - | - | 45\% | 5\% | 50\% | 55\% | 2\% | 43\% |
| 31\% | 8\% | 60\% | 38\% | 7\% | 55\% | 13\% | 17\% | 70\% | 16\% | 17\% | 67\% | 13\% | 17\% | 70\% | 1\% | 11\% | 87\% | 31\% | 10\% | 59\% | 60\% | 9\% | 31\% |
| 2\% | 5\% | 93\% | 0\% | 0\% | 100 | 44\% | 9\% | 47\% | 37\% | 8\% | 55\% | 81\% | 4\% | 15\% | 84\% | 3\% | 13\% | 4\% | 34\% | 62\% | 2\% | 18\% | 80\% |
| 23\% | 12\% | 66\% | 22\% | 11\% | 66\% | 58\% | 25\% | 16\% | 61\% | 27\% | 12\% | 70\% | 12\% | 18\% | 65\% | 7\% | 28\% | - | - | - | - | - |  |
| 17\% | 9\% | 73\% | 8\% | 9\% | 83\% | 24\% | 12\% | 64\% | 38\% | 18\% | 44\% | 38\% | 14\% | 48\% | 51\% | 14\% | 35\% | 18\% | 6\% | 76\% | 9\% | 8\% | 84\% |
| - | - |  | - | - | - | 87\% | 7\% | 6\% | 82\% | 7\% | 11\% | 57\% | 15\% | 29\% | 75\% | 13\% | 12\% | 0\% | 24\% | 76\% | 0\% | 20\% | 80\% |
| 81\% | 14\% | 6\% | 79\% | 16\% | 5\% | 98\% | 0\% | 2\% | 100\% | 0\% | 0\% | 86\% | 6\% | 9\% | 93\% | 4\% | 3\% | - | - | - | - | - | - |
| 7\% | 27\% | 66\% | 7\% | 33\% | 61\% | 87\% | 1\% | 12\% | 94\% | 0\% | 5\% | 65\% | 13\% | 23\% | 95\% | 5\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 100\% |
| 27\% | 14\% | 60\% | 11\% | 27\% | 62\% | 27\% | 5\% | 67\% | 77\% | 4\% | 19\% | 25\% | 6\% | 69\% | 86\% | 5\% | 9\% | - | - | - | - | - | - |
| 6\% | 52\% | 42\% | 16\% | 37\% | 47\% | 61\% | 6\% | 33\% | 94\% | 1\% | 4\% | 96\% | 1\% | 3\% | 95\% | 2\% | 3\% | - | - | - | - | - | - |
| 15\% | 16\% | 69\% | 14\% | 0\% | 86\% | 31\% | 20\% | 48\% | 75\% | 5\% | 20\% | 53\% | 3\% | 44\% | 76\% | 5\% | 19\% | 22\% | 16\% | 62\% | 17\% | 14\% | 69\% |
| 7\% | 32\% | 61\% | 7\% | 31\% | 62\% | 97\% | 1\% | 2\% | 95\% | 1\% | 4\% | 70\% | 8\% | 22\% | 83\% | 5\% | 11\% | - | - | - | - | - | - |
| 63\% | 13\% | 24\% | 58\% | 15\% | 28\% | - | - | - | - | - | - | 18\% | 25\% | 56\% | 11\% | 26\% | 63\% | 92\% | 3\% | 5\% | 85\% | 3\% | 12\% |


| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 30\% | 9\% | 61\% | 31\% | 9\% | 60\% | 19\% | 7\% | 74\% | 10\% | 8\% | 82\% | 7\% | 9\% | 84\% | 5\% | 7\% | 88\% | 15\% | 13\% | 72\% | 23\% | 8\% | 69\% |
| 95\% | 2\% | 3\% | 90\% | 1\% | 9\% | 0\% | 10\% | 90\% | 0\% | 17\% | 83\% |  |  |  |  |  |  | 84\% | 7\% | 9\% | 79\% | 10\% | 12\% |
| 13\% | 7\% | 80\% | 19\% | 9\% | 71\% | 3\% | 3\% | 94\% | 0\% | 14\% | 86\% | 15\% | 11\% | 74\% | 17\% | 13\% | 70\% | 41\% | 29\% | 30\% | 40\% | 30\% | 29\% |
| 41\% | 19\% | 40\% | 34\% | 11\% | 55\% | 4\% | 21\% | 75\% | 4\% | 18\% | 78\% | 2\% | 9\% | 90\% | 2\% | 15\% | 84\% | 32\% | 13\% | 55\% | 22\% | 14\% | 64\% |
| 84\% | 3\% | 13\% | 84\% | 3\% | 14\% |  |  |  |  |  |  | 85\% | 2\% | 12\% | 88\% | 3\% | 10\% | 76\% | 16\% | 8\% | 74\% | 17\% | 9\% |
| 74\% | 13\% | 13\% | 84\% | 7\% | 9\% | 22\% | 12\% | 66\% | 25\% | 8\% | 67\% |  |  |  |  |  |  | 46\% | 11\% | 43\% | 54\% | 15\% | 32\% |
| 58\% | 13\% | 30\% | 59\% | 17\% | 24\% | 10\% | 23\% | 67\% | 14\% | 14\% | 72\% | 0\% | 50\% | 50\% | 0\% | 33\% | 67\% | 40\% | 8\% | 53\% | 46\% | 5\% | 49\% |
| 63\% | 11\% | 27\% | 54\% | 10\% | 36\% | 0\% | 25\% | 75\% | 0\% | 0\% | 0\% | 7\% | 25\% | 68\% | 0\% | 14\% | 86\% | 72\% | 19\% | 9\% | 72\% | 25\% | 4\% |
| 29\% | 14\% | 58\% | 30\% | 18\% | 53\% | 4\% | 9\% | 87\% | 12\% | 4\% | 84\% | 10\% | 10\% | 80\% | 7\% | 19\% | 75\% | 43\% | 25\% | 31\% | 37\% | 23\% | 40\% |
| 84\% | 5\% | 11\% | 92\% | 0\% | 8\% | 0\% | 25\% | 75\% | 0\% | 0\% | 0\% | 2\% | 23\% | 75\% | 8\% | 15\% | 77\% | 78\% | 9\% | 14\% | 74\% | 5\% | 21\% |
| 91\% | 3\% | 6\% | 95\% | 3\% | 2\% | 0\% | 14\% | 86\% | 0\% | 0\% | 100 | - |  |  | - |  |  | 82\% | 8\% | 10\% | 95\% | 4\% | 1\% |
| 28\% | 8\% | 64\% | 18\% | 11\% | 71\% | 7\% | 5\% | 88\% | 21\% | 29\% | 50\% | 13\% | 18\% | 69\% | 9\% | 18\% | 73\% | 23\% | 15\% | 61\% | 29\% | 12\% | 59\% |
| 85\% | 10\% | 5\% | 91\% | 8\% | 1\% | - | - |  |  |  |  | 19\% | 14\% | 66\% | 18\% | 22\% | 60\% | 76\% | 18\% | 6\% | 80\% | 13\% | 7\% |
| 39\% | 6\% | 54\% | 36\% | 9\% | 55\% | 79\% | 4\% | 17\% | 84\% | 5\% | 11\% | - |  |  | - |  |  | 68\% | 13\% | 19\% | 63\% | 18\% | 19\% |
| 58\% | 14\% | 28\% | 61\% | 9\% | 30\% | 7\% | 6\% | 87\% | 13\% | 0\% | 88\% | 0\% | 26\% | 74\% | 0\% | 33\% | 67\% | 25\% | 18\% | 57\% | 21\% | 0\% | 79\% |
| 95\% | 1\% | 4\% | 91\% | 2\% | 7\% | 0\% | 40\% | 60\% | 0\% | 0\% | 0\% | 4\% | 32\% | 64\% | 0\% | 50\% | 50\% | 93\% | 3\% | 3\% | 87\% | 9\% | 4\% |
| 94\% | 0\% | 6\% | 88\% | 2\% | 10\% | - | - | - | - | - | - | 0\% | 23\% | 77\% | 0\% | 0\% | 100 | 83\% | 3\% | 14\% | 95\% | 0\% | 5\% |
| 20\% | 9\% | 71\% | 58\% | 13\% | 29\% | 4\% | 30\% | 66\% | 0\% | 35\% | 65\% | 8\% | 16\% | 76\% | 0\% | 0\% | 0\% | 73\% | 5\% | 22\% | 77\% | 3\% | 20\% |
| 70\% | 5\% | 25\% | 23\% | 20\% | 58\% | 0\% | 13\% | 87\% | 0\% | 14\% | 86\% | 6\% | 25\% | 69\% | 14\% | 29\% | 57\% | 43\% | 18\% | 39\% | 38\% | 19\% | 44\% |
| 59\% | 20\% | 21\% | 66\% | 16\% | 18\% | 6\% | 19\% | 75\% | 0\% | 33\% | 67\% | 0\% | 30\% | 70\% | 0\% | 0\% | 0\% | 69\% | 9\% | 21\% | 83\% | 6\% | 11\% |
| 34\% | 18\% | 48\% | 40\% | 16\% | 44\% | 10\% | 13\% | 78\% | 17\% | 11\% | 72\% | 6\% | 13\% | 80\% | 8\% | 16\% | 76\% | 16\% | 12\% | 71\% | 24\% | 9\% | 67\% |
| 61\% | 14\% | 25\% | 61\% | 16\% | 23\% | 3\% | 34\% | 63\% | 0\% | 33\% | 67\% | 6\% | 22\% | 72\% | 0\% | 50\% | 50\% | 67\% | 10\% | 23\% | 67\% | 12\% | 21\% |
| 84\% | 4\% | 11\% | 92\% | 5\% | 3\% |  |  |  |  |  |  | 0\% | 31\% | 69\% | 0\% | 0\% | 0\% | 75\% | 13\% | 12\% | 78\% | 11\% | 11\% |
| 10\% | 21\% | 69\% | 8\% | 23\% | 70\% | 49\% | 12\% | 40\% | 58\% | 8\% | 34\% | 31\% | 19\% | 50\% | 44\% | 22\% | 35\% | 100 | 0\% | 0\% | 67\% | 33\% | 0\% |
| - | - | - | - | - | - | 21\% | 16\% | 63\% | 16\% | 15\% | 69\% | 57\% | 13\% | 30\% | 68\% | 11\% | 21\% | 74\% | 8\% | 18\% | 68\% | 12\% | 20\% |
| 77\% | 7\% | 17\% | 92\% | 7\% | 1\% | 70\% | 6\% | 24\% | 73\% | 6\% | 21\% | 36\% | 24\% | 39\% | 57\% | 20\% | 23\% | 0\% | 6\% | 94\% | 0\% | 10\% | 90\% |
| 71\% | 7\% | 22\% | 70\% | 8\% | 22\% |  |  |  |  |  |  | 11\% | 26\% | 63\% | 9\% | 19\% | 72\% | 85\% | 4\% | 11\% | 83\% | 2\% | 15\% |
| 45\% | 12\% | 43\% | 48\% | 11\% | 40\% | 8\% | 15\% | 77\% | 5\% | 14\% | 81\% | 0\% | 22\% | 78\% | 0\% | 14\% | 86\% | 72\% | 5\% | 23\% | 68\% | 7\% | 25\% |
| 69\% | 5\% | 27\% | 73\% | 5\% | 22\% | 0\% | 18\% | 82\% | 0\% | 13\% | 87\% | 5\% | 16\% | 79\% | 6\% | 14\% | 80\% | 24\% | 18\% | 58\% | 40\% | 15\% | 45\% |
| 42\% | 12\% | 46\% | 46\% | 17\% | 37\% | 7\% | 14\% | 79\% | 7\% | 12\% | 81\% | - | - |  | - | - | - | 76\% | 7\% | 17\% | 80\% | 1\% | 19\% |
| 96\% | 3\% | 1\% | 97\% | 2\% | 1\% | 0\% | 17\% | 83\% | 0\% | 13\% | 88\% | 0\% | 20\% | 80\% | 13\% | 38\% | 50\% | 97\% | 2\% | 1\% | 97\% | 1\% | 2\% |
| 84\% | 2\% | 15\% | 94\% | 2\% | 4\% | 0\% | 8\% | 92\% | 0\% | 11\% | 89\% | 0\% | 33\% | 67\% | 0\% | 0\% | 100 | 89\% | 2\% | 8\% | 96\% | 0\% | 4\% |
| 56\% | 13\% | 31\% | 80\% | 1\% | 19\% | 6\% | 18\% | 76\% | 17\% | 17\% | 67\% | 6\% | 18\% | 76\% | 4\% | 15\% | 80\% | 79\% | 6\% | 15\% | 45\% | 15\% | 40\% |
| 69\% | 5\% | 26\% | 47\% | 19\% | 35\% | 11\% | 13\% | 76\% | 9\% | 14\% | 77\% | 0\% | 31\% | 69\% | 8\% | 16\% | 76\% | 83\% | 5\% | 12\% | 89\% | 1\% | 10\% |
| 89\% | 1\% | 11\% | 91\% | 1\% | 8\% | 0\% | 45\% | 55\% | 0\% | 41\% | 59\% | 0\% | 13\% | 88\% | 4\% | 16\% | 80\% | 74\% | 8\% | 18\% | 71\% | 8\% | 22\% |
| 27\% | 15\% | 58\% | 27\% | 16\% | 57\% | 25\% | 17\% | 57\% | 21\% | 17\% | 62\% | 29\% | 17\% | 54\% | 23\% | 16\% | 61\% | 17\% | 18\% | 66\% | 24\% | 14\% | 62\% |
| 69\% | 3\% | 28\% | 57\% | 2\% | 41\% | 5\% | 38\% | 57\% | 11\% | 40\% | 48\% | 5\% | 25\% | 70\% | 0\% | 13\% | 87\% | 39\% | 7\% | 54\% | 33\% | 9\% | 58\% |
| 32\% | 26\% | 42\% | 25\% | 24\% | 51\% | 54\% | 4\% | 42\% | 52\% | 6\% | 42\% | 64\% | 22\% | 14\% | 67\% | 21\% | 12\% | - | - | - | - | - | - |
| - | - | - | - | - | - | 94\% | 6\% | 0\% | 96\% | 4\% | 0\% | 50\% | 8\% | 42\% | 54\% | 9\% | 37\% | 23\% | 44\% | 33\% | 24\% | 38\% | 38\% |
| 6\% | 15\% | 79\% | 6\% | 14\% | 80\% | 46\% | 6\% | 48\% | 45\% | 9\% | 46\% | 64\% | 4\% | 32\% | 63\% | 3\% | 34\% | 6\% | 17\% | 78\% | 6\% | 17\% | 77\% |


| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 0\% | 11\% | 89\% | 7\% | 5\% | 88\% | 83\% | 4\% | 13\% | 84\% | 6\% | 11\% | 61\% | 14\% | 25\% | 74\% | 9\% | 17\% | 10\% | 20\% | 70\% | 18\% | 5\% | 78\% |
| 8\% | 13\% | 79\% | 10\% | 20\% | 70\% | 36\% | 17\% | 47\% | 31\% | 18\% | 50\% | 40\% | 21\% | 39\% | 38\% | 21\% | 41\% | 7\% | 8\% | 85\% | 5\% | 8\% | 87\% |
| 0\% | 25\% | 75\% | 0\% | 21\% | 79\% | 37\% | 19\% | 43\% | 42\% | 17\% | 41\% | 45\% | 11\% | 44\% | 42\% | 12\% | 45\% | 4\% | 15\% | 81\% | 8\% | 17\% | 75\% |
| 25\% | 17\% | 58\% | 23\% | 20\% | 56\% | 25\% | 17\% | 57\% | 22\% | 17\% | 61\% | 29\% | 18\% | 53\% | 23\% | 17\% | 61\% | 19\% | 17\% | 65\% | 25\% | 14\% | 60\% |
| 0\% | 27\% | 73\% | 0\% | 9\% | 91\% | 76\% | 10\% | 14\% | 76\% | 10\% | 14\% | 87\% | 8\% | 4\% | 86\% | 10\% | 5\% | 6\% | 19\% | 75\% | 0\% | 8\% | 92\% |
| 9\% | 20\% | 71\% | 9\% | 18\% | 73\% | 71\% | 5\% | 24\% | 75\% | 2\% | 22\% | 56\% | 15\% | 29\% | 59\% | 19\% | 23\% | 0\% | 14\% | 86\% | 0\% | 50\% | 50\% |
| 0\% | 8\% | 92\% | 0\% | 27\% | 73\% | 44\% | 20\% | 36\% | 51\% | 20\% | 29\% | 47\% | 11\% | 42\% | 54\% | 12\% | 34\% | 7\% | 16\% | 78\% | 5\% | 19\% | 75\% |
| 4\% | 24\% | 72\% | 4\% | 24\% | 72\% | 49\% | 19\% | 33\% | 45\% | 13\% | 42\% | 66\% | 11\% | 24\% | 56\% | 11\% | 32\% | 0\% | 50\% | 50\% | 0\% | 19\% | 81\% |
| 37\% | 28\% | 35\% | 41\% | 26\% | 33\% | 0\% | 0\% | 100 | 0\% | 0\% | 100 | 7\% | 23\% | 70\% | 12\% | 21\% | 67\% | 48\% | 19\% | 32\% | 59\% | 14\% | 27\% |
| 49\% | 17\% | 33\% | 54\% | 16\% | 30\% | 9\% | 24\% | 67\% | 13\% | 21\% | 66\% | 0\% | 20\% | 80\% | 0\% | 23\% | 77\% | 57\% | 12\% | 32\% | 54\% | 11\% | 35\% |
| 45\% | 19\% | 35\% | 46\% | 18\% | 36\% | 2\% | 10\% | 88\% | 1\% | 12\% | 87\% | 0\% | 55\% | 45\% | 0\% | 56\% | 44\% | 46\% | 13\% | 41\% | 50\% | 14\% | 36\% |
| 56\% | 19\% | 25\% | 50\% | 19\% | 32\% | - |  |  |  |  |  | 2\% | 15\% | 84\% | 1\% | 21\% | 78\% | 69\% | 16\% | 16\% | 66\% | 17\% | 17\% |
| 62\% | 9\% | 28\% | 55\% | 13\% | 32\% | 0\% | 0\% | 0\% | 0\% | 100 | 0\% | 9\% | 23\% | 67\% | 4\% | 14\% | 82\% | 52\% | 20\% | 27\% | 52\% | 26\% | 22\% |
| 51\% | 19\% | 30\% | 55\% | 17\% | 28\% | 5\% | 14\% | 81\% | 17\% | 12\% | 71\% | 0\% | 0\% | 100 | 0\% | 25\% | 75\% | 62\% | 10\% | 28\% | 57\% | 11\% | 31\% |
| 71\% | 11\% | 18\% | 83\% | 9\% | 9\% | 0\% | 46\% | 54\% | 0\% | 0\% | 0\% | 4\% | 48\% | 48\% | 0\% | 26\% | 74\% | 68\% | 10\% | 22\% | 86\% | 10\% | 5\% |
| 82\% | 7\% | 11\% | 89\% | 3\% | 8\% | - | - | - |  |  | - | 0\% | 9\% | 91\% | 0\% | 21\% | 79\% | 83\% | 10\% | 7\% | 86\% | 9\% | 5\% |
| 69\% | 4\% | 27\% | 86\% | 1\% | 12\% | 12\% | 6\% | 82\% | 14\% | 7\% | 79\% | 2\% | 13\% | 85\% | 4\% | 13\% | 83\% | 67\% | 7\% | 26\% | 73\% | 9\% | 19\% |
| 25\% | 8\% | 67\% | 62\% | 6\% | 32\% | 11\% | 26\% | 63\% | 12\% | 19\% | 69\% | 8\% | 28\% | 63\% | 8\% | 28\% | 64\% | 57\% | 10\% | 33\% | 58\% | 10\% | 32\% |
| 65\% | 7\% | 28\% | 69\% | 11\% | 21\% | 12\% | 20\% | 67\% | 15\% | 19\% | 66\% | 5\% | 12\% | 83\% | 4\% | 9\% | 87\% | 52\% | 8\% | 40\% | 63\% | 10\% | 27\% |
| 77\% | 8\% | 15\% | 76\% | 8\% | 15\% | 6\% | 31\% | 63\% | 7\% | 31\% | 62\% | 10\% | 24\% | 66\% | 7\% | 23\% | 70\% | 63\% | 6\% | 31\% | 45\% | 10\% | 45\% |
| 80\% | 3\% | 16\% | 89\% | 3\% | 8\% | 0\% | 30\% | 70\% | 3\% | 28\% | 69\% |  |  |  | - |  |  | 91\% | 1\% | 7\% | 87\% | 5\% | 8\% |
| 47\% | 11\% | 42\% | 42\% | 15\% | 44\% | 7\% | 16\% | 77\% | 7\% | 10\% | 83\% | 4\% | 15\% | 81\% | 4\% | 16\% | 80\% | 43\% | 13\% | 44\% | 66\% | 10\% | 24\% |
| 64\% | 10\% | 26\% | 88\% | 5\% | 7\% | 3\% | 23\% | 75\% | 2\% | 30\% | 68\% | 4\% | 13\% | 82\% | 4\% | 16\% | 80\% | 62\% | 17\% | 21\% | 88\% | 6\% | 7\% |
| 25\% | 10\% | 65\% | 62\% | 11\% | 27\% | 11\% | 15\% | 74\% | 15\% | 17\% | 68\% | 1\% | 8\% | 91\% | 4\% | 12\% | 84\% | 65\% | 9\% | 26\% | 40\% | 14\% | 46\% |
| 70\% | 10\% | 20\% | 70\% | 12\% | 18\% | 3\% | 3\% | 95\% | 2\% | 15\% | 83\% | 0\% | 23\% | 77\% | 1\% | 16\% | 83\% | 62\% | 14\% | 24\% | 84\% | 8\% | 9\% |
| 53\% | 18\% | 28\% | 73\% | 10\% | 18\% | 2\% | 26\% | 71\% | 3\% | 20\% | 77\% | 11\% | 12\% | 77\% | 10\% | 9\% | 81\% | 57\% | 13\% | 30\% | 74\% | 9\% | 17\% |
| 86\% | 4\% | 11\% | 92\% | 2\% | 6\% | 2\% | 10\% | 88\% | 3\% | 10\% | 87\% | 6\% | 12\% | 82\% | 2\% | 9\% | 89\% | 64\% | 18\% | 18\% | 59\% | 21\% | 21\% |
| 48\% | 15\% | 37\% | 69\% | 9\% | 22\% | 13\% | 20\% | 67\% | 10\% | 18\% | 71\% | 17\% | 35\% | 48\% | 10\% | 39\% | 51\% | 49\% | 10\% | 41\% | 54\% | 7\% | 39\% |
| 45\% | 10\% | 45\% | 56\% | 6\% | 38\% |  |  | - |  |  |  | 9\% | 16\% | 75\% | 6\% | 13\% | 81\% | 31\% | 26\% | 42\% | 35\% | 22\% | 43\% |
| 41\% | 15\% | 43\% | 24\% | 17\% | 58\% | 2\% | 13\% | 85\% | 1\% | 17\% | 83\% | 8\% | 20\% | 73\% | 5\% | 18\% | 78\% | 42\% | 17\% | 41\% | 59\% | 13\% | 28\% |
| 10\% | 21\% | 69\% | 9\% | 19\% | 72\% | - | - | - | - | - | - | 35\% | 17\% | 48\% | 40\% | 17\% | 44\% | 74\% | 18\% | 8\% | 68\% | 21\% | 11\% |
| 49\% | 40\% | 12\% | 24\% | 30\% | 46\% | 70\% | 2\% | 29\% | 79\% | 3\% | 19\% | - | - |  | - |  | - | 24\% | 15\% | 62\% | 6\% | 10\% | 84\% |
| 60\% | 12\% | 28\% | 52\% | 15\% | 33\% | 17\% | 80\% | 3\% | 13\% | 82\% | 5\% | 0\% | 50\% | 50\% | 0\% | 45\% | 55\% | 61\% | 10\% | 29\% | 61\% | 7\% | 32\% |
| 97\% | 3\% | 0\% | 99\% | 1\% | 0\% | 0\% | 64\% | 36\% | 0\% | 33\% | 67\% | 0\% | 50\% | 50\% | 0\% | 40\% | 60\% | 99\% | 1\% | 1\% | 99\% | 1\% | 0\% |
| 84\% | 9\% | 7\% | 73\% | 12\% | 15\% | 0\% | 33\% | 67\% | 0\% | 0\% | 100 | 0\% | 18\% | 82\% | 3\% | 31\% | 66\% | 85\% | 8\% | 7\% | 89\% | 4\% | 7\% |
| 20\% | 26\% | 54\% | 11\% | 20\% | 69\% | 49\% | 38\% | 13\% | 49\% | 37\% | 14\% | 13\% | 15\% | 72\% | 11\% | 12\% | 77\% | 17\% | 16\% | 67\% | 7\% | 17\% | 76\% |
|  | - | - | - | - | - | 60\% | 16\% | 24\% | 51\% | 20\% | 29\% | 62\% | 13\% | 25\% | 68\% | 11\% | 20\% | 10\% | 19\% | 70\% | 7\% | 13\% | 80\% |
| 10\% | 22\% | 68\% | 4\% | 22\% | 74\% | 45\% | 17\% | 39\% | 39\% | 19\% | 42\% | 54\% | 12\% | 35\% | 50\% | 11\% | 39\% | 5\% | 5\% | 89\% | 6\% | 9\% | 85\% |
| 8\% | 16\% | 77\% | 10\% | 23\% | 67\% | 61\% | 11\% | 29\% | 59\% | 11\% | 30\% | 69\% | 13\% | 18\% | 65\% | 10\% | 24\% | 3\% | 3\% | 95\% | 0\% | 9\% | 91\% |
| 0\% | 0\% | 100 | 0\% | 0\% | 0\% | 86\% | 5\% | 9\% | 88\% | 6\% | 6\% | 84\% | 6\% | 11\% | 87\% | 5\% | 9\% | 0\% | 49\% | 51\% | 5\% | 71\% | 24\% |


| Int ID | Intersection Name | Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
|  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
|  |  | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 21_3 | Pine Hills Rd \& Hernandes Dr | 0\% | 9\% | 91\% | 6\% | 25\% | 69\% | 76\% | 7\% | 17\% | 71\% | 8\% | 22\% | 83\% | 11\% | 6\% | 71\% | 6\% | 23\% | 33\% | 35\% | 33\% | 23\% | 34\% | 43\% |
| 21_4 | Pine Hills Rd \& Indialantic Dr | 12\% | 17\% | 71\% | 5\% | 9\% | 86\% | 35\% | 16\% | 49\% | 71\% | 12\% | 17\% | 33\% | 7\% | 59\% | 55\% | 13\% | 31\% | 7\% | 20\% | 73\% | 1\% | 31\% | 68\% |
| 21_5 | Pine Hills Rd \& SR 438 | 27\% | 18\% | 55\% | 10\% | 15\% | 75\% | 11\% | 11\% | 78\% | 15\% | 13\% | 72\% | 13\% | 8\% | 79\% | 10\% | 11\% | 79\% | 22\% | 12\% | 66\% | 14\% | 8\% | 78\% |
| 21_6 | Pine Hills Rd \& Belco Dr | 9\% | 24\% | 66\% | 7\% | 20\% | 73\% | 45\% | 19\% | 36\% | 76\% | 6\% | 17\% | 64\% | 13\% | 23\% | 63\% | 13\% | 24\% | 0\% | 0\% | 100\% | 0\% | 0\% | 100\% |
| 21_7 | Pine Hills Rd \& Londonderry Blvd | - | - | - | - | - | - | 48\% | 13\% | 39\% | 49\% | 18\% | 33\% | 66\% | 7\% | 27\% | 74\% | 6\% | 20\% | 3\% | 19\% | 78\% | 0\% | 17\% | 83\% |
| 21_8 | Pine Hills Rd \& Indian Hills Rd | 8\% | 29\% | 63\% | 3\% | 19\% | 77\% | 75\% | 8\% | 17\% | 80\% | 4\% | 16\% | 63\% | 12\% | 25\% | 54\% | 16\% | 29\% |  |  |  | - |  |  |
| 21_9 | Pine Hills Rd \& North Lane | 18\% | 11\% | 70\% | 7\% | 18\% | 74\% | 23\% | 20\% | 56\% | 19\% | 18\% | 63\% | 31\% | 12\% | 56\% | 27\% | 10\% | 63\% | 22\% | 24\% | 54\% | 18\% | 20\% | 62\% |
| 22_1 | Maitland Ave \& E Horatio Ave | 7\% | 35\% | 58\% | 0\% | 29\% | 71\% | 22\% | 10\% | 68\% | 19\% | 10\% | 71\% | 26\% | 12\% | 62\% | 28\% | 10\% | 62\% | 8\% | 27\% | 65\% | 5\% | 24\% | 71\% |
| 22_2 | Maitland Ave \& Sandspur Rd | 2\% | 15\% | 84\% | 0\% | 18\% | 82\% | 61\% | 12\% | 27\% | 60\% | 14\% | 25\% | 29\% | 17\% | 55\% | 75\% | 10\% | 16\% |  |  |  | - | - |  |
| 22_3 | Maitland Ave \& Marion Way | 0\% | 25\% | 75\% | 0\% | 11\% | 89\% | 59\% | 13\% | 29\% | 51\% | 13\% | 36\% | 65\% | 10\% | 25\% | 74\% | 8\% | 17\% | 2\% | 17\% | 81\% | 0\% | 15\% | 85\% |
| 22_4 | Maitland Ave \& SR 414 | 31\% | 12\% | 56\% | 26\% | 13\% | 61\% | 11\% | 6\% | 83\% | 6\% | 7\% | 87\% | 13\% | 10\% | 77\% | 12\% | 14\% | 75\% | 24\% | 6\% | 70\% | 21\% | 6\% | 72\% |
| 23_1 | Hiawassee Rd \& Edgewater Dr | 8\% | 16\% | 76\% | 8\% | 17\% | 75\% | 46\% | 10\% | 44\% | 50\% | 7\% | 43\% | 55\% | 6\% | 39\% | 74\% | 4\% | 23\% | 10\% | 11\% | 79\% | 7\% | 2\% | 90\% |
| 23_2 | Hiawassee Rd \& Walmart | 3\% | 17\% | 80\% | 3\% | 24\% | 74\% | 68\% | 10\% | 21\% | 70\% | 5\% | 25\% | 58\% | 14\% | 28\% | 75\% | 9\% | 16\% | 1\% | 19\% | 80\% | 0\% | 15\% | 85\% |
| 24_1 | Hiawassee Rd \& SR 408 EB | 51\% | 16\% | 33\% | 50\% | 16\% | 34\% | 49\% | 16\% | 35\% | 60\% | 26\% | 14\% | 74\% | 4\% | 21\% | 62\% | 3\% | 35\% | - |  |  | - | - |  |
| 24_2 | Hiawassee Rd \& SR 408 WB | - |  |  | - | - |  | 77\% | 2\% | 21\% | 74\% | 3\% | 23\% | 54\% | 7\% | 39\% | 74\% | 8\% | 18\% | 28\% | 21\% | 51\% | 22\% | 20\% | 59\% |
| 24_3 | Hiawassee Rd \& W Colonial Dr | 15\% | 13\% | 71\% | 15\% | 14\% | 71\% | 8\% | 13\% | 79\% | 20\% | 6\% | 74\% | 30\% | 12\% | 58\% | 24\% | 12\% | 64\% | 54\% | 15\% | 31\% | 47\% | 16\% | 37\% |
| 24_4 | Hiawassee Rd \& Orange County MultiCultural Center | 0\% | 18\% | 82\% | 0\% | 33\% | 67\% | 87\% | 8\% | 4\% | 92\% | 4\% | 4\% | 95\% | 2\% | 2\% | 87\% | 6\% | 7\% | - | - | - | - | - | - |
| 24_5 | Hiawassee Rd \& Vernon St | 18\% | 10\% | 72\% | 13\% | 12\% | 76\% | 70\% | 9\% | 21\% | 45\% | 9\% | 46\% | 46\% | 11\% | 43\% | 39\% | 14\% | 47\% | 7\% | 5\% | 88\% | 5\% | 6\% | 89\% |
| 24_6 | Hiawassee Rd \& Hennepin Blvd | 0\% | 0\% | 100 | 0\% | 33\% | 67\% | 55\% | 17\% | 29\% | 58\% | 20\% | 22\% | 49\% | 21\% | 30\% | 46\% | 30\% | 25\% | 4\% | 46\% | 51\% | 0\% | 51\% | 49\% |
| 24_7 | Hiawassee Rd \& SR438 | 13\% | 8\% | 79\% | 20\% | 9\% | 71\% | 11\% | 10\% | 78\% | 9\% | 7\% | 84\% | 13\% | 10\% | 78\% | 16\% | 12\% | 73\% | 14\% | 12\% | 74\% | 11\% | 9\% | 80\% |
| 24_8 | Hiawassee Rd \& Super Beauty Depot | 0\% | 26\% | 74\% | 2\% | 27\% | 71\% | 64\% | 17\% | 19\% | 66\% | 15\% | 20\% | 74\% | 11\% | 16\% | 67\% | 13\% | 21\% | 0\% | 23\% | 77\% | 0\% | 29\% | 71\% |
| 24_9 | Hiawassee Rd \& Coral Cove Dr | 3\% | 8\% | 90\% | 4\% | 20\% | 76\% | 63\% | 16\% | 21\% | 63\% | 13\% | 24\% | 75\% | 11\% | 15\% | 67\% | 8\% | 25\% | 6\% | 25\% | 69\% | 2\% | 23\% | 75\% |
| 24_10 | Hiawassee Rd \& Hiawassee Oak Dr | 0\% | 12\% | 88\% | 0\% | 13\% | 87\% | 83\% | 1\% | 15\% | 74\% | 4\% | 23\% | 80\% | 11\% | 9\% | 73\% | 11\% | 16\% | - |  | - | - | - | - |
| 24_11 | Hiawassee Rd \& Clarcona Ocoee Rd | 14\% | 11\% | 76\% | 15\% | 11\% | 74\% | 18\% | 15\% | 67\% | 10\% | 10\% | 81\% | 21\% | 14\% | 64\% | 12\% | 9\% | 79\% | 17\% | 11\% | 73\% | 19\% | 11\% | 70\% |
| 24_12 | Hiawassee Rd \& Beggs Rd | 14\% | 7\% | 78\% | 7\% | 9\% | 84\% | 76\% | 5\% | 19\% | 65\% | 6\% | 29\% | 59\% | 7\% | 34\% | 59\% | 5\% | 36\% | 8\% | 9\% | 83\% | 6\% | 7\% | 87\% |
| 24_13 | Hiawassee Rd \& SR 414 EB Ramp | 41\% | 33\% | 26\% | 36\% | 38\% | 27\% | 22\% | 53\% | 24\% | 20\% | 46\% | 33\% | 79\% | 19\% | 2\% | 77\% | 22\% | 1\% | - | - | - | - | - | - |
| 24_14 | Hiawassee Rd \& SR 414 WB Ramp | - | - | - | - | - | - | 92\% | 8\% | 0\% | 90\% | 9\% | 1\% | 67\% | 9\% | 24\% | 61\% | 10\% | 29\% | 71\% | 20\% | 9\% | 69\% | 23\% | 8\% |
| 24_15 | Hiawassee Rd \& Wekiva High School | - | - | - | - | - | - | 71\% | 16\% | 13\% | 61\% | 22\% | 17\% | 75\% | 6\% | 19\% | 72\% | 8\% | 21\% | 1\% | 18\% | 81\% | 1\% | 21\% | 78\% |
| 25_1 | Park Ave \& E 5th St | 10\% | 11\% | 80\% | 9\% | 10\% | 82\% | 48\% | 30\% | 22\% | 50\% | 30\% | 21\% | 48\% | 30\% | 23\% | 55\% | 24\% | 21\% | 9\% | 34\% | 57\% | 4\% | 26\% | 69\% |
| 25_2 | Park Ave \& SR 500 | 18\% | 14\% | 68\% | 40\% | 15\% | 45\% | 10\% | 8\% | 82\% | 9\% | 9\% | 82\% | 10\% | 10\% | 80\% | 9\% | 12\% | 79\% | 26\% | 23\% | 51\% | 40\% | 21\% | 39\% |
| 26_1 | Vick Rd \& SR 500 | 45\% | 6\% | 50\% | 37\% | 8\% | 55\% | 12\% | 11\% | 77\% | 14\% | 13\% | 73\% | 12\% | 13\% | 76\% | 12\% | 12\% | 75\% | 15\% | 9\% | 76\% | 36\% | 10\% | 54\% |
| 26_2 | Vick Rd \& Edgewater Dr | 9\% | 10\% | 81\% | 8\% | 14\% | 77\% | 40\% | 14\% | 46\% | 34\% | 11\% | 55\% | 31\% | 19\% | 50\% | 27\% | 20\% | 54\% | 5\% | 18\% | 77\% | 6\% | 23\% | 71\% |


| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 0\% | 18\% | 82\% | 0\% | 16\% | 84\% | 71\% | 6\% | 23\% | 72\% | 6\% | 23\% | 84\% | 6\% | 10\% | 89\% | 5\% | 7\% | 0\% | 19\% | 81\% | 0\% | 6\% | 94\% |
| 2\% | 34\% | 64\% | 4\% | 34\% | 63\% | 77\% | 7\% | 16\% | 80\% | 6\% | 14\% | 92\% | 3\% | 4\% | 91\% | 4\% | 5\% | 0\% | 13\% | 88\% | 3\% | 13\% | 83\% |
| 11\% | 18\% | 70\% | 9\% | 15\% | 76\% | 23\% | 11\% | 66\% | 20\% | 12\% | 68\% | 42\% | 9\% | 48\% | 50\% | 9\% | 41\% | 3\% | 17\% | 80\% | 4\% | 16\% | 81\% |
| 0\% | 23\% | 77\% | 7\% | 22\% | 70\% | 73\% | 8\% | 19\% | 72\% | 8\% | 20\% | 66\% | 5\% | 29\% | 69\% | 5\% | 26\% | 11\% | 21\% | 69\% | 6\% | 19\% | 75\% |
| - | - |  | - | - |  | 48\% | 19\% | 33\% | 41\% | 14\% | 44\% | 51\% | 5\% | 44\% | 37\% | 10\% | 53\% | 10\% | 26\% | 64\% | 9\% | 18\% | 74\% |
| 0\% | 43\% | 57\% | 0\% | 38\% | 62\% | 98\% | 2\% | 0\% | 98\% | 1\% | 1\% | 97\% | 2\% | 1\% | 96\% | 3\% | 1\% | 1\% | 37\% | 62\% | 2\% | 31\% | 67\% |
| 3\% | 9\% | 88\% | 2\% | 12\% | 86\% | 46\% | 7\% | 48\% | 33\% | 13\% | 54\% | 43\% | 7\% | 51\% | 35\% | 8\% | 56\% | 19\% | 29\% | 52\% | 21\% | 25\% | 54\% |
| 22\% | 18\% | 60\% | 19\% | 20\% | 61\% | 21\% | 20\% | 59\% | 13\% | 20\% | 68\% | 24\% | 21\% | 55\% | 25\% | 20\% | 55\% | 45\% | 8\% | 47\% | 42\% | 8\% | 50\% |
| 45\% | 11\% | 44\% | 72\% | 10\% | 17\% | 3\% | 9\% | 87\% | 4\% | 9\% | 88\% | 0\% | 49\% | 51\% | 0\% | 53\% | 47\% | 43\% | 13\% | 44\% | 46\% | 15\% | 39\% |
| 57\% | 19\% | 24\% | 51\% | 21\% | 29\% | 34\% | 20\% | 46\% | 38\% | 17\% | 45\% | 29\% | 7\% | 64\% | 23\% | 12\% | 65\% |  | - | - |  |  |  |
| 26\% | 10\% | 64\% | 21\% | 11\% | 69\% | 100\% | 0\% | 0\% | 99\% | 1\% | 0\% | 75\% | 16\% | 9\% | 68\% | 16\% | 15\% | - | - | - | - | - |  |
| - | - | - | - |  |  | 60\% | 23\% | 17\% | 58\% | 24\% | 19\% | 99\% | 1\% | 0\% | 98\% | 2\% | 0\% | 59\% | 15\% | 27\% | 62\% | 13\% | 25\% |
| 14\% | 39\% | 47\% | 13\% | 35\% | 52\% | 32\% | 6\% | 62\% | 38\% | 5\% | 56\% | 20\% | 13\% | 67\% | 16\% | 13\% | 71\% | 5\% | 16\% | 79\% | 17\% | 16\% | 67\% |
| 0\% | 78\% | 22\% | 0\% | 77\% | 23\% | 86\% | 4\% | 10\% | 23\% | 33\% | 44\% | 57\% | 6\% | 37\% | 61\% | 13\% | 26\% | 0\% | 67\% | 33\% | 0\% | 46\% | 54\% |
| - | - | - | - | - | - | 40\% | 32\% | 28\% | 36\% | 31\% | 34\% | 55\% | 6\% | 39\% | 60\% | 5\% | 35\% | 10\% | 27\% | 63\% | 12\% | 17\% | 71\% |
| 1\% | 42\% | 57\% | 0\% | 43\% | 57\% | 66\% | 5\% | 29\% | 64\% | 12\% | 24\% | 59\% | 10\% | 30\% | 64\% | 7\% | 29\% | 0\% | 33\% | 67\% | 0\% | 19\% | 81\% |
| 31\% | 7\% | 62\% | 44\% | 8\% | 48\% | 0\% | 31\% | 69\% | 2\% | 20\% | 79\% | 4\% | 33\% | 63\% | 4\% | 30\% | 66\% | 20\% | 12\% | 69\% | 35\% | 13\% | 52\% |
| 75\% | 5\% | 20\% | 77\% | 9\% | 14\% | 2\% | 37\% | 61\% | 2\% | 29\% | 69\% | - | - |  | - | - |  | 67\% | 10\% | 23\% | 83\% | 5\% | 13\% |
| 43\% | 10\% | 47\% | 65\% | 13\% | 22\% | 4\% | 33\% | 63\% | 2\% | 22\% | 76\% | 0\% | 6\% | 94\% | 0\% | 17\% | 83\% | 68\% | 9\% | 23\% | 68\% | 5\% | 27\% |
| 41\% | 13\% | 46\% | 36\% | 12\% | 53\% | 2\% | 34\% | 64\% | 1\% | 20\% | 79\% | 3\% | 20\% | 78\% | 1\% | 20\% | 78\% | 27\% | 14\% | 59\% | 32\% | 14\% | 54\% |
| - | - |  | - |  |  | 40\% | 11\% | 50\% | 42\% | 12\% | 46\% | 28\% | 10\% | 62\% | 40\% | 9\% | 52\% | 11\% | 33\% | 56\% | 20\% | 22\% | 58\% |
| 7\% | 18\% | 75\% | 2\% | 20\% | 77\% | 71\% | 8\% | 21\% | 83\% | 4\% | 13\% | 54\% | 12\% | 34\% | 67\% | 11\% | 22\% | 0\% | 27\% | 73\% | 0\% | 16\% | 84\% |
| 1\% | 8\% | 92\% | 1\% | 10\% | 89\% | 67\% | 10\% | 23\% | 70\% | 10\% | 21\% | 74\% | 8\% | 19\% | 92\% | 4\% | 4\% | 5\% | 24\% | 71\% | 2\% | 19\% | 79\% |
| 2\% | 9\% | 90\% | 4\% | 19\% | 77\% | 79\% | 4\% | 17\% | 53\% | 9\% | 38\% | 86\% | 4\% | 10\% | 84\% | 3\% | 13\% | 1\% | 19\% | 80\% | 7\% | 23\% | 70\% |
| 1\% | 25\% | 74\% | 1\% | 22\% | 77\% | 66\% | 9\% | 25\% | 84\% | 5\% | 11\% | 69\% | 7\% | 24\% | 75\% | 8\% | 16\% | 0\% | 8\% | 92\% | 0\% | 14\% | 86\% |
| 8\% | 13\% | 78\% | 13\% | 12\% | 75\% | 17\% | 11\% | 72\% | 31\% | 14\% | 55\% | 30\% | 11\% | 59\% | 25\% | 10\% | 65\% | 7\% | 9\% | 84\% | 17\% | 16\% | 67\% |
| - | - | - | - | - | - | 76\% | 13\% | 11\% | 78\% | 11\% | 11\% | 76\% | 9\% | 14\% | 79\% | 8\% | 14\% | 1\% | 13\% | 86\% | 0\% | 13\% | 87\% |
| 2\% | 19\% | 78\% | 3\% | 15\% | 81\% | 57\% | 10\% | 34\% | 54\% | 9\% | 36\% | 59\% | 3\% | 37\% | 70\% | 6\% | 25\% | 0\% | 1\% | 99\% | 0\% | 4\% | 96\% |
| 5\% | 33\% | 63\% | 6\% | 23\% | 71\% | 61\% | 12\% | 27\% | 56\% | 11\% | 33\% | 45\% | 13\% | 42\% | 70\% | 5\% | 25\% |  | - | - | - | - | - |
| 8\% | 10\% | 82\% | 5\% | 6\% | 89\% | 47\% | 10\% | 42\% | 31\% | 10\% | 59\% | 29\% | 10\% | 61\% | 71\% | 4\% | 25\% | 10\% | 11\% | 78\% | 9\% | 10\% | 80\% |
| 56\% | 7\% | 37\% | 84\% | 4\% | 13\% | 0\% | 35\% | 65\% | 0\% | 33\% | 68\% | 0\% | 18\% | 82\% | 0\% | 18\% | 82\% | 25\% | 15\% | 60\% | 41\% | 27\% | 31\% |
| 62\% | 5\% | 33\% | 47\% | 19\% | 34\% | 0\% | 36\% | 64\% | 0\% | 42\% | 58\% | 16\% | 16\% | 69\% | 19\% | 21\% | 60\% | 77\% | 7\% | 16\% | 70\% | 9\% | 21\% |
| 49\% | 17\% | 34\% | 60\% | 12\% | 28\% | 8\% | 18\% | 73\% | 8\% | 17\% | 76\% | 0\% | 9\% | 91\% | 0\% | 14\% | 86\% | 27\% | 10\% | 63\% | 48\% | 11\% | 41\% |
| 54\% | 5\% | 40\% | 49\% | 7\% | 44\% | 5\% | 22\% | 72\% | 3\% | 18\% | 79\% | 19\% | 15\% | 66\% | 21\% | 15\% | 64\% | 47\% | 7\% | 46\% | 51\% | 5\% | 45\% |
| 32\% | 6\% | 62\% | 51\% | 6\% | 43\% | 16\% | 9\% | 75\% | 20\% | 10\% | 69\% | 1\% | 14\% | 85\% | 0\% | 11\% | 89\% | 23\% | 9\% | 69\% | 29\% | 8\% | 64\% |
| 61\% | 13\% | 26\% | 62\% | 11\% | 27\% | - | - | - | - | - | - | 11\% | 15\% | 74\% | 13\% | 14\% | 74\% | 64\% | 9\% | 27\% | 60\% | 8\% | 31\% |
| 44\% | 10\% | 46\% | 40\% | 10\% | 50\% | - | - | - | - | - | - | 6\% | 14\% | 80\% | 7\% | 16\% | 77\% | 67\% | 14\% | 19\% | 52\% | 16\% | 33\% |
| 15\% | 13\% | 72\% | 14\% | 19\% | 67\% |  |  |  |  | - | - | - |  |  | - | - |  | 23\% | 13\% | 64\% | 17\% | 23\% | 60\% |
| 18\% | 17\% | 65\% | 36\% | 31\% | 32\% | 16\% | 18\% | 66\% | 5\% | 10\% | 85\% | 0\% | 5\% | 95\% | 0\% | 11\% | 89\% | 50\% | 6\% | 44\% | 52\% | 5\% | 42\% |
| 91\% | 2\% | 7\% | 85\% | 3\% | 12\% | - | - | - | - | - | - | 0\% | 24\% | 76\% | 4\% | 39\% | 57\% | 81\% | 4\% | 14\% | 83\% | 6\% | 11\% |


| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 80\% | 9\% | 11\% | 71\% | 12\% | 17\% | 7\% | 11\% | 82\% | 5\% | 17\% | 78\% | 4\% | 0\% | 96\% | 6\% | 11\% | 83\% | 72\% | 6\% | 22\% | 82\% | 5\% | 13\% |
| 71\% | 4\% | 25\% | 69\% | 4\% | 26\% | 0\% | 18\% | 82\% | 0\% | 27\% | 73\% | 4\% | 19\% | 77\% | 8\% | 20\% | 73\% | 53\% | 13\% | 34\% | 62\% | 12\% | 26\% |
| 26\% | 15\% | 59\% | 26\% | 13\% | 61\% | 5\% | 7\% | 88\% | 1\% | 5\% | 93\% | 10\% | 11\% | 78\% | 5\% | 6\% | 89\% | 6\% | 8\% | 86\% | 7\% | 13\% | 79\% |
| 50\% | 14\% | 36\% | 40\% | 10\% | 50\% | - |  |  |  |  |  | 4\% | 10\% | 86\% | 5\% | 10\% | 84\% | 63\% | 22\% | 15\% | 51\% | 26\% | 23\% |
| 40\% | 13\% | 48\% | 37\% | 11\% | 51\% | 7\% | 9\% | 84\% | 3\% | 11\% | 86\% | 8\% | 18\% | 73\% | 11\% | 17\% | 72\% | 42\% | 18\% | 40\% | 31\% | 16\% | 54\% |
| 27\% | 23\% | 50\% | 61\% | 19\% | 20\% | 22\% | 17\% | 61\% | 14\% | 14\% | 72\% | - | - | - | - | - | - | 62\% | 17\% | 21\% | 63\% | 15\% | 22\% |
| 48\% | 13\% | 40\% | 55\% | 14\% | 31\% | 15\% | 13\% | 71\% | 7\% | 13\% | 80\% | 3\% | 6\% | 90\% | 6\% | 6\% | 89\% | 36\% | 14\% | 50\% | 56\% | 12\% | 32\% |
| 64\% | 7\% | 29\% | 84\% | 2\% | 14\% | 16\% | 13\% | 71\% | 7\% | 9\% | 84\% |  | - |  |  |  |  | 58\% | 9\% | 34\% | 66\% | 9\% | 24\% |
| 65\% | 10\% | 25\% | 39\% | 12\% | 49\% | 8\% | 7\% | 85\% | 9\% | 8\% | 83\% | 11\% | 14\% | 75\% | 12\% | 15\% | 73\% | 51\% | 10\% | 40\% | 52\% | 8\% | 40\% |
| 17\% | 21\% | 62\% | 22\% | 18\% | 61\% | 11\% | 13\% | 75\% | 9\% | 13\% | 78\% | 17\% | 12\% | 71\% | 16\% | 10\% | 74\% | 23\% | 17\% | 61\% | 23\% | 14\% | 64\% |
| 57\% | 27\% | 16\% | 54\% | 18\% | 28\% |  |  |  |  |  |  | 7\% | 17\% | 76\% | 6\% | 14\% | 80\% | 52\% | 23\% | 25\% | 46\% | 18\% | 36\% |
| 77\% | 11\% | 12\% | 82\% | 9\% | 9\% | 64\% | 7\% | 28\% | 65\% | 6\% | 29\% | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 38\% | 19\% | 43\% | 82\% | 4\% | 14\% |
| 65\% | 10\% | 25\% | 81\% | 5\% | 14\% | 5\% | 20\% | 75\% | 4\% | 16\% | 80\% | - | - | - | - | - | - | 62\% | 12\% | 26\% | 78\% | 4\% | 18\% |
| 67\% | 18\% | 16\% | 77\% | 9\% | 14\% | 4\% | 12\% | 84\% | 4\% | 12\% | 84\% | 0\% | 29\% | 71\% | 0\% | 28\% | 72\% | 65\% | 14\% | 22\% | 75\% | 7\% | 18\% |
| 47\% | 18\% | 35\% | 35\% | 15\% | 50\% | 4\% | 6\% | 90\% | 3\% | 7\% | 90\% | 15\% | 17\% | 69\% | 13\% | 6\% | 81\% | 66\% | 7\% | 27\% | 66\% | 8\% | 25\% |
| 17\% | 11\% | 72\% | 13\% | 12\% | 75\% | 2\% | 3\% | 95\% | 3\% | 2\% | 95\% | 7\% | 10\% | 83\% | 13\% | 9\% | 78\% | 34\% | 13\% | 53\% | 38\% | 15\% | 47\% |
| 68\% | 8\% | 24\% | 75\% | 7\% | 19\% | - |  |  | - | - | - | 7\% | 26\% | 67\% | 7\% | 22\% | 71\% | 87\% | 5\% | 7\% | 90\% | 4\% | 6\% |
| 23\% | 10\% | 67\% | 27\% | 12\% | 61\% | 9\% | 11\% | 80\% | 8\% | 8\% | 84\% | 14\% | 10\% | 76\% | 2\% | 4\% | 94\% | 16\% | 12\% | 72\% | 20\% | 11\% | 69\% |
| 67\% | 18\% | 15\% | 65\% | 17\% | 17\% | 10\% | 18\% | 72\% | 10\% | 17\% | 72\% |  |  |  |  |  |  | 83\% | 2\% | 15\% | 78\% | 3\% | 19\% |
| 79\% | 5\% | 16\% | 78\% | 5\% | 17\% | 5\% | 15\% | 80\% | 5\% | 24\% | 70\% | 5\% | 11\% | 83\% | 6\% | 9\% | 85\% | 80\% | 11\% | 10\% | 84\% | 7\% | 10\% |
| 21\% | 22\% | 57\% | 22\% | 18\% | 60\% | 21\% | 17\% | 62\% | 18\% | 16\% | 66\% | 14\% | 16\% | 70\% | 14\% | 17\% | 68\% | 21\% | 6\% | 73\% | 21\% | 9\% | 70\% |
| 85\% | 6\% | 9\% | 81\% | 6\% | 13\% | 5\% | 14\% | 81\% | 0\% | 24\% | 76\% | 6\% | 17\% | 77\% | 7\% | 16\% | 76\% | 79\% | 8\% | 13\% | 77\% | 7\% | 16\% |
| 62\% | 8\% | 31\% | 51\% | 9\% | 40\% |  |  |  |  |  |  | 8\% | 17\% | 75\% | 6\% | 20\% | 74\% | 54\% | 23\% | 22\% | 45\% | 29\% | 26\% |
| 34\% | 25\% | 42\% | 38\% | 29\% | 33\% | 14\% | 26\% | 60\% | 17\% | 32\% | 51\% | - | - | - | - | - | - | 37\% | 8\% | 55\% | 42\% | 9\% | 48\% |
| 30\% | 24\% | 46\% | 21\% | 19\% | 59\% | 8\% | 5\% | 86\% | 8\% | 16\% | 76\% | 9\% | 26\% | 65\% | 10\% | 22\% | 68\% | 59\% | 12\% | 29\% | 44\% | 14\% | 42\% |
| 58\% | 15\% | 27\% | 57\% | 19\% | 24\% | 5\% | 43\% | 52\% | 10\% | 34\% | 57\% | 2\% | 14\% | 84\% | 7\% | 16\% | 77\% | 56\% | 24\% | 20\% | 55\% | 22\% | 23\% |
| 50\% | 11\% | 38\% | 52\% | 8\% | 40\% | 9\% | 8\% | 83\% | 9\% | 10\% | 81\% | 10\% | 8\% | 82\% | 13\% | 10\% | 77\% | 32\% | 24\% | 44\% | 52\% | 16\% | 32\% |
| 47\% | 8\% | 45\% | 39\% | 6\% | 55\% | 28\% | 35\% | 36\% | 27\% | 34\% | 39\% | - | - | - | - | - | - | 54\% | 10\% | 36\% | 61\% | 6\% | 33\% |
| 35\% | 7\% | 58\% | 39\% | 8\% | 54\% | 18\% | 17\% | 66\% | 13\% | 23\% | 65\% | 6\% | 12\% | 82\% | 2\% | 8\% | 91\% | 32\% | 10\% | 58\% | 49\% | 10\% | 42\% |
| 5\% | 5\% | 90\% | 0\% | 9\% | 91\% | 37\% | 9\% | 54\% | 25\% | 9\% | 66\% | 77\% | 3\% | 20\% | 71\% | 5\% | 24\% | 5\% | 27\% | 68\% | 7\% | 24\% | 68\% |
| 24\% | 11\% | 65\% | 27\% | 10\% | 63\% | 53\% | 14\% | 34\% | 57\% | 14\% | 29\% | 61\% | 8\% | 31\% | 46\% | 14\% | 39\% |  | - | - | - | - |  |
| 14\% | 8\% | 78\% | 9\% | 6\% | 85\% | 41\% | 15\% | 44\% | 43\% | 14\% | 43\% | 33\% | 20\% | 47\% | 33\% | 21\% | 46\% | 17\% | 4\% | 79\% | 7\% | 6\% | 87\% |
| - | - | - | - | - | - | 82\% | 7\% | 11\% | 89\% | 6\% | 6\% | 25\% | 19\% | 56\% | 28\% | 22\% | 50\% | 1\% | 23\% | 76\% | 0\% | 25\% | 75\% |
| 60\% | 15\% | 25\% | 73\% | 9\% | 18\% | 99\% | 0\% | 1\% | 99\% | 1\% | 0\% | 51\% | 15\% | 35\% | 65\% | 7\% | 28\% | - | - | - | - | - | - |
| 4\% | 19\% | 76\% | 0\% | 14\% | 86\% | 93\% | 0\% | 7\% | 74\% | 12\% | 14\% | 70\% | 8\% | 21\% | 87\% | 3\% | 10\% | 0\% | 0\% | 100\% | 0\% | 0\% | 100\% |
| 23\% | 17\% | 60\% | 22\% | 17\% | 61\% | 51\% | 5\% | 44\% | 78\% | 1\% | 21\% | 16\% | 12\% | 72\% | 44\% | 17\% | 40\% | - | - | - | - | - | - |
| 3\% | 36\% | 61\% | 23\% | 23\% | 54\% | 70\% | 11\% | 19\% | 73\% | 10\% | 17\% | 92\% | 1\% | 7\% | 90\% | 2\% | 8\% | - | - | - | - | - | - |
| 12\% | 10\% | 78\% | 14\% | 10\% | 76\% | 61\% | 13\% | 26\% | 64\% | 10\% | 26\% | 67\% | 3\% | 30\% | 83\% | 2\% | 15\% | 13\% | 10\% | 77\% | 9\% | 7\% | 84\% |
| 7\% | 43\% | 49\% | 16\% | 22\% | 62\% | 82\% | 7\% | 11\% | 90\% | 4\% | 6\% | 60\% | 10\% | 30\% | 89\% | 6\% | 6\% |  |  | - |  |  | - |
| 56\% | 19\% | 25\% | 65\% | 12\% | 24\% | - | - | - | - | - | - | 17\% | 28\% | 54\% | 13\% | 16\% | 70\% | 91\% | 5\% | 5\% | 87\% | 4\% | 9\% |


| Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
| Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
| Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 38\% | 10\% | 51\% | 39\% | 8\% | 53\% | 17\% | 7\% | 76\% | 10\% | 13\% | 77\% | 11\% | 6\% | 83\% | 4\% | 10\% | 85\% | 25\% | 15\% | 60\% | 28\% | 9\% | 64\% |
| 96\% | 2\% | 2\% | 91\% | 2\% | 7\% | 0\% | 0\% | 100 | 0\% | 29\% | 71\% | - | - | - | - | - |  | 85\% | 6\% | 9\% | 80\% | 10\% | 10\% |
| 20\% | 8\% | 71\% | 23\% | 10\% | 67\% | 0\% | 13\% | 87\% | 0\% | 22\% | 78\% | 9\% | 19\% | 72\% | 16\% | 12\% | 72\% | 41\% | 31\% | 29\% | 46\% | 28\% | 25\% |
| 49\% | 15\% | 37\% | 47\% | 15\% | 38\% | 6\% | 17\% | 77\% | 5\% | 13\% | 81\% | 6\% | 13\% | 82\% | 1\% | 18\% | 81\% | 37\% | 13\% | 49\% | 35\% | 12\% | 53\% |
| 93\% | 4\% | 4\% | 92\% | 3\% | 4\% | - | - | - | - | - | - | 91\% | 1\% | 8\% | 85\% | 1\% | 14\% | 84\% | 11\% | 5\% | 79\% | 16\% | 5\% |
| 73\% | 9\% | 18\% | 69\% | 9\% | 22\% | 27\% | 9\% | 64\% | 23\% | 12\% | 64\% |  |  |  | - |  |  | 52\% | 16\% | 32\% | 55\% | 13\% | 33\% |
| 58\% | 12\% | 30\% | 56\% | 16\% | 28\% | 14\% | 24\% | 62\% | 10\% | 17\% | 73\% | 0\% | 40\% | 60\% | 0\% | 33\% | 67\% | 36\% | 5\% | 60\% | 45\% | 5\% | 50\% |
| 66\% | 10\% | 23\% | 68\% | 9\% | 23\% | 0\% | 40\% | 60\% | 0\% | 50\% | 50\% | 3\% | 30\% | 67\% | 0\% | 44\% | 56\% | 72\% | 20\% | 9\% | 60\% | 26\% | 14\% |
| 29\% | 13\% | 59\% | 39\% | 11\% | 50\% | 4\% | 10\% | 86\% | 12\% | 20\% | 68\% | 12\% | 12\% | 76\% | 9\% | 12\% | 79\% | 46\% | 26\% | 28\% | 42\% | 23\% | 35\% |
| 85\% | 4\% | 10\% | 91\% | 0\% | 9\% | 0\% | 33\% | 67\% | 0\% | 0\% | 0\% | 3\% | 27\% | 70\% | 0\% | 43\% | 57\% | 82\% | 9\% | 10\% | 81\% | 4\% | 15\% |
| 95\% | 1\% | 4\% | 96\% | 1\% | 3\% | 0\% | 11\% | 89\% | 0\% | 0\% | 100 |  | - |  | - | - |  | 87\% | 5\% | 8\% | 96\% | 0\% | 4\% |
| 31\% | 7\% | 62\% | 23\% | 10\% | 68\% | 9\% | 9\% | 82\% | 0\% | 13\% | 88\% | 13\% | 17\% | 69\% | 7\% | 18\% | 75\% | 29\% | 18\% | 53\% | 32\% | 24\% | 45\% |
| 86\% | 10\% | 4\% | 86\% | 13\% | 1\% | - | - | - | - |  |  | 18\% | 22\% | 60\% | 17\% | 19\% | 64\% | 81\% | 14\% | 5\% | 85\% | 8\% | 7\% |
| 41\% | 5\% | 54\% | 38\% | 9\% | 54\% | 84\% | 4\% | 12\% | 83\% | 2\% | 15\% | - | - | - | - | - |  | 70\% | 12\% | 18\% | 57\% | 18\% | 25\% |
| 71\% | 11\% | 19\% | 71\% | 16\% | 12\% | 4\% | 15\% | 81\% | 0\% | 0\% | 100 | 0\% | 24\% | 76\% | 0\% | 29\% | 71\% | 40\% | 17\% | 43\% | 27\% | 8\% | 65\% |
| 94\% | 3\% | 3\% | 93\% | 3\% | 3\% | 0\% | 0\% | 100 | 0\% | 50\% | 50\% | 5\% | 5\% | 91\% | 0\% | 100\% | 0\% | 94\% | 4\% | 3\% | 76\% | 11\% | 13\% |
| 94\% | 0\% | 5\% | 79\% | 5\% | 16\% | - |  |  |  |  |  | 0\% | 20\% | 80\% | 0\% | 0\% | 100 | 81\% | 5\% | 14\% | 87\% | 9\% | 4\% |
| 26\% | 9\% | 65\% | 63\% | 9\% | 28\% | 3\% | 28\% | 69\% | 0\% | 36\% | 64\% | 0\% | 10\% | 90\% | 0\% | 0\% | 0\% | 75\% | 5\% | 20\% | 78\% | 2\% | 20\% |
| 68\% | 6\% | 26\% | 31\% | 20\% | 49\% | 3\% | 16\% | 81\% | 0\% | 67\% | 33\% | 6\% | 24\% | 70\% | 9\% | 45\% | 45\% | 42\% | 20\% | 37\% | 52\% | 16\% | 32\% |
| 60\% | 19\% | 21\% | 75\% | 18\% | 7\% | 3\% | 23\% | 74\% | 0\% | 0\% | 0\% | 0\% | 29\% | 71\% | 0\% | 0\% | 0\% | 74\% | 8\% | 18\% | 80\% | 12\% | 8\% |
| 39\% | 20\% | 41\% | 46\% | 19\% | 35\% | 16\% | 10\% | 74\% | 18\% | 7\% | 75\% | 13\% | 16\% | 72\% | 4\% | 29\% | 68\% | 16\% | 16\% | 68\% | 28\% | 0\% | 72\% |
| 59\% | 17\% | 24\% | 46\% | 11\% | 43\% | 9\% | 30\% | 61\% | 0\% | 100 | 0\% | 9\% | 9\% | 82\% | 20\% | 0\% | 80\% | 67\% | 10\% | 22\% | 74\% | 3\% | 23\% |
| 87\% | 4\% | 9\% | 91\% | 3\% | 6\% | - | - | - | - | - | - | 6\% | 39\% | 55\% | 0\% | 0\% | 100 | 80\% | 11\% | 9\% | 70\% | 15\% | 15\% |
| 10\% | 23\% | 67\% | 13\% | 33\% | 54\% | 54\% | 13\% | 33\% | 51\% | 8\% | 41\% | 39\% | 19\% | 42\% | 42\% | 13\% | 45\% | 100 | 0\% | 0\% | 0\% | 100 | 0\% |
| - | - |  | - | - | - | 25\% | 18\% | 57\% | 11\% | 8\% | 80\% | 78\% | 8\% | 14\% | 70\% | 7\% | 22\% | 79\% | 6\% | 15\% | 72\% | 13\% | 16\% |
| 89\% | 5\% | 6\% | 90\% | 6\% | 4\% | 76\% | 7\% | 17\% | 71\% | 9\% | 20\% | 56\% | 21\% | 23\% | 54\% | 22\% | 24\% | 0\% | 17\% | 83\% | 0\% | 20\% | 80\% |
| 71\% | 5\% | 24\% | 72\% | 4\% | 24\% | - | - | - | - | - | - | 12\% | 12\% | 76\% | 2\% | 25\% | 73\% | 91\% | 3\% | 6\% | 87\% | 2\% | 11\% |
| 51\% | 11\% | 39\% | 50\% | 9\% | 41\% | 8\% | 15\% | 77\% | 2\% | 14\% | 84\% | 0\% | 18\% | 82\% | 0\% | 14\% | 86\% | 75\% | 4\% | 21\% | 68\% | 7\% | 25\% |
| 72\% | 4\% | 24\% | 77\% | 4\% | 19\% | 0\% | 29\% | 71\% | 0\% | 8\% | 92\% | 12\% | 16\% | 72\% | 6\% | 13\% | 81\% | 30\% | 19\% | 51\% | 55\% | 14\% | 31\% |
| 48\% | 13\% | 38\% | 45\% | 15\% | 41\% | 12\% | 15\% | 73\% | 10\% | 18\% | 72\% | - | - | - | - | - | - | 85\% | 5\% | 11\% | 87\% | 1\% | 12\% |
| 98\% | 2\% | 0\% | 98\% | 2\% | 0\% | 0\% | 0\% | 100 | 0\% | 8\% | 92\% | 0\% | 100 | 0\% | 0\% | 33\% | 67\% | 97\% | 2\% | 2\% | 98\% | 1\% | 1\% |
| 83\% | 2\% | 15\% | 91\% | 4\% | 5\% | 0\% | 7\% | 93\% | 0\% | 0\% | 100 | 0\% | 17\% | 83\% | 0\% | 0\% | 0\% | 89\% | 4\% | 7\% | 94\% | 1\% | 6\% |
| 54\% | 17\% | 29\% | 86\% | 2\% | 12\% | 0\% | 33\% | 67\% | 0\% | 29\% | 71\% | 4\% | 20\% | 76\% | 8\% | 17\% | 75\% | 81\% | 7\% | 12\% | 56\% | 14\% | 30\% |
| 71\% | 4\% | 25\% | 50\% | 19\% | 31\% | 8\% | 20\% | 71\% | 12\% | 10\% | 78\% | 20\% | 0\% | 80\% | 0\% | 14\% | 86\% | 86\% | 4\% | 10\% | 86\% | 3\% | 11\% |
| 90\% | 0\% | 10\% | 92\% | 2\% | 6\% | 0\% | 27\% | 73\% | 0\% | 33\% | 67\% | 0\% | 13\% | 87\% | 0\% | 25\% | 75\% | 72\% | 8\% | 20\% | 75\% | 10\% | 15\% |
| 33\% | 14\% | 52\% | 29\% | 20\% | 51\% | 29\% | 17\% | 54\% | 31\% | 19\% | 50\% | 32\% | 15\% | 53\% | 25\% | 11\% | 64\% | 18\% | 13\% | 69\% | 35\% | 10\% | 55\% |
| 68\% | 3\% | 29\% | 61\% | 1\% | 38\% | 6\% | 29\% | 65\% | 5\% | 46\% | 49\% | 0\% | 29\% | 71\% | 5\% | 21\% | 74\% | 47\% | 5\% | 48\% | 41\% | 6\% | 52\% |
| 24\% | 33\% | 43\% | 23\% | 33\% | 44\% | 58\% | 6\% | 36\% | 52\% | 4\% | 44\% | 62\% | 24\% | 13\% | 60\% | 25\% | 16\% |  | - | - | - | - | - |
| - | - | - | - | - | - | 94\% | 6\% | 0\% | 93\% | 7\% | 0\% | 57\% | 9\% | 34\% | 56\% | 7\% | 37\% | 30\% | 38\% | 32\% | 26\% | 46\% | 29\% |
| 14\% | 19\% | 68\% | 15\% | 17\% | 69\% | 46\% | 11\% | 43\% | 44\% | 8\% | 48\% | 55\% | 5\% | 40\% | 64\% | 3\% | 33\% | 8\% | 16\% | 76\% | 7\% | 14\% | 79\% |


| Int ID | Intersection Name | Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
|  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
|  |  | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 16_4 | SR 434 \& Lotus Landing Blvd | 0\% | 7\% | 93\% | 7\% | 21\% | 71\% | 84\% | 5\% | 11\% | 89\% | 3\% | 8\% | 68\% | 11\% | 21\% | 78\% | 7\% | 14\% | 6\% | 22\% | 72\% | 10\% | 17\% | 72\% |
| 16_5 | SR 434 \& Bunnell Rd | 12\% | 8\% | 80\% | 13\% | 16\% | 70\% | 33\% | 16\% | 51\% | 29\% | 16\% | 54\% | 32\% | 27\% | 42\% | 34\% | 20\% | 46\% | 6\% | 10\% | 84\% | 5\% | 17\% | 78\% |
| 16_6 | SR 434 \& Orange Ave | 0\% | 17\% | 83\% | 0\% | 15\% | 85\% | 39\% | 19\% | 42\% | 59\% | 15\% | 26\% | 41\% | 10\% | 48\% | 47\% | 12\% | 41\% | 3\% | 14\% | 83\% | 6\% | 15\% | 79\% |
| 16_7 | SR 434 \& SR436 | 31\% | 17\% | 52\% | 25\% | 24\% | 51\% | 29\% | 17\% | 54\% | 30\% | 18\% | 53\% | 31\% | 15\% | 53\% | 25\% | 13\% | 62\% | 19\% | 13\% | 68\% | 35\% | 10\% | 55\% |
| 16_8 | SR 434 \& Cape Cod Ln | 0\% | 30\% | 70\% | 0\% | 22\% | 78\% | 83\% | 8\% | 8\% | 83\% | 8\% | 9\% | 89\% | 7\% | 4\% | 87\% | 8\% | 5\% | 0\% | 21\% | 79\% | 0\% | 47\% | 53\% |
| 16_9 | SR 434 \& Sand Lake Rd | 8\% | 19\% | 73\% | 5\% | 22\% | 73\% | 77\% | 6\% | 18\% | 79\% | 2\% | 19\% | 60\% | 18\% | 23\% | 64\% | 20\% | 16\% | 0\% | 33\% | 67\% | 0\% | 0\% | 100\% |
| 16_10 | SR 434 \& Jamestown Blvd | 0\% | 17\% | 83\% | 0\% | 23\% | 77\% | 56\% | 16\% | 28\% | 56\% | 17\% | 27\% | 49\% | 11\% | 40\% | 51\% | 16\% | 33\% | 10\% | 23\% | 67\% | 3\% | 20\% | 77\% |
| 16_11 | SR 434 \& E Lake Brantley Dr | 4\% | 35\% | 61\% | 3\% | 30\% | 67\% | 57\% | 13\% | 29\% | 52\% | 12\% | 36\% | 68\% | 8\% | 24\% | 65\% | 6\% | 29\% | 0\% | 38\% | 62\% | 0\% | 20\% | 80\% |
| 17_1W | Sand Lake Rd \& Oak Haven Dr | 59\% | 12\% | 29\% | 60\% | 11\% | 29\% | 0\% | 38\% | 63\% | 0\% | 40\% | 60\% | 6\% | 16\% | 79\% | 7\% | 21\% | 73\% | 60\% | 20\% | 21\% | 68\% | 15\% | 17\% |
| 17_2W | Sand Lake Rd \& Hickory Dr | 55\% | 14\% | 31\% | 63\% | 12\% | 25\% | 10\% | 18\% | 73\% | 7\% | 16\% | 77\% | 0\% | 0\% | 100 | 0\% | 13\% | 87\% | 67\% | 12\% | 22\% | 72\% | 11\% | 17\% |
| 17_3A | Sand Lake Rd \& Lake Brantley High School Drway | 52\% | 15\% | 32\% | 60\% | 11\% | 29\% | 1\% | 39\% | 60\% | 6\% | 35\% | 58\% | 1\% | 30\% | 69\% | 4\% | 36\% | 60\% | 62\% | 11\% | 27\% | 73\% | 11\% | 16\% |
| 17_4W | Sand Lake Rd \& Lake Brantley High Back Entrance | 79\% | 8\% | 12\% | 82\% | 8\% | 11\% |  | - |  | - | - |  | 0\% | 23\% | 77\% | 0\% | 12\% | 88\% | 86\% | 9\% | 6\% | 82\% | 9\% | 8\% |
| 17_1W | Sand Lake Rd \& Oak Haven Dr | 57\% | 17\% | 25\% | 55\% | 11\% | 33\% | 0\% | 0\% | 100 | 0\% | 0\% | 0\% | 5\% | 10\% | 85\% | 11\% | 19\% | 70\% | 51\% | 25\% | 24\% | 60\% | 16\% | 24\% |
| 17_2W | Sand Lake Rd \& Lake Brantley High School Drway | 66\% | 12\% | 22\% | 57\% | 17\% | 26\% | 13\% | 4\% | 83\% | 3\% | 20\% | 77\% | 0\% | 0\% | 100 | 0\% | 0\% | 0\% | 62\% | 13\% | 25\% | 70\% | 13\% | 17\% |
| 17_3A | Sand Lake Rd \& Lake Brantley High School Drway | 80\% | 14\% | 6\% | 82\% | 14\% | 4\% | 0\% | 50\% | 50\% | 0\% | 20\% | 80\% | 0\% | 75\% | 25\% | 0\% | 25\% | 75\% | 87\% | 5\% | 8\% | 91\% | 5\% | 4\% |
| 17_4W | Sand Lake Rd \& Lake Brantley High Back Entrance | 95\% | 2\% | 3\% | 95\% | 3\% | 2\% | - | - | - | - | - | - | 0\% | 0\% | 100 | 0\% | 100\% | 0\% | 90\% | 7\% | 3\% | 95\% | 2\% | 2\% |
| 18_1 | US 192 \& SR 91 NB Off Ramp | 32\% | 6\% | 63\% | 84\% | 2\% | 14\% | 18\% | 10\% | 72\% | 15\% | 13\% | 72\% | 3\% | 15\% | 82\% | 4\% | 16\% | 80\% | 37\% | 8\% | 55\% | 72\% | 7\% | 20\% |
| 18_2 | US 192 \& Commerce center Dr | 46\% | 8\% | 46\% | 17\% | 15\% | 68\% | 8\% | 24\% | 69\% | 7\% | 29\% | 65\% | 9\% | 22\% | 69\% | 7\% | 21\% | 72\% | 37\% | 16\% | 47\% | 17\% | 16\% | 67\% |
| 18_3 | US 192 \& Old Canoe Creek Rd | 62\% | 8\% | 30\% | 62\% | 11\% | 27\% | 8\% | 19\% | 73\% | 9\% | 20\% | 71\% | 6\% | 18\% | 75\% | 7\% | 17\% | 75\% | 46\% | 10\% | 43\% | 51\% | 13\% | 36\% |
| 18_4 | US 192 \& Brown Chapel Rd | 74\% | 9\% | 17\% | 67\% | 8\% | 24\% | 5\% | 24\% | 70\% | 6\% | 29\% | 64\% | 6\% | 15\% | 79\% | 10\% | 15\% | 75\% | 46\% | 8\% | 46\% | 45\% | 9\% | 46\% |
| 18_5 | US 192 \& Big Lots | 82\% | 3\% | 14\% | 84\% | 3\% | 13\% | 0\% | 24\% | 76\% | 1\% | 26\% | 73\% | - | - | - | - | - |  | 71\% | 4\% | 25\% | 69\% | 6\% | 25\% |
| 18_6 | US 192 \& Budinger Ave | 52\% | 10\% | 38\% | 36\% | 12\% | 52\% | 7\% | 14\% | 80\% | 8\% | 14\% | 78\% | 5\% | 8\% | 87\% | 4\% | 10\% | 86\% | 55\% | 12\% | 34\% | 66\% | 9\% | 25\% |
| 18_7 | US 192 \& Tennessee Ave | 63\% | 15\% | 22\% | 73\% | 14\% | 13\% | 1\% | 36\% | 63\% | 3\% | 36\% | 61\% | 1\% | 22\% | 77\% | 6\% | 22\% | 72\% | 53\% | 10\% | 37\% | 80\% | 7\% | 13\% |
| 18_8 | US 192 \& CR 523 | 35\% | 11\% | 54\% | 36\% | 14\% | 50\% | 10\% | 16\% | 73\% | 16\% | 18\% | 66\% | 3\% | 6\% | 91\% | 6\% | 9\% | 86\% | 46\% | 8\% | 46\% | 36\% | 15\% | 49\% |
| 18_9 | US 192 \& New York Ave | 78\% | 7\% | 15\% | 69\% | 15\% | 17\% | 0\% | 6\% | 94\% | 4\% | 9\% | 87\% | 0\% | 19\% | 81\% | 0\% | 18\% | 82\% | 51\% | 15\% | 34\% | 78\% | 11\% | 10\% |
| 18_10 | US 192 \& Creek Woods Dr | 59\% | 10\% | 31\% | 80\% | 7\% | 13\% | 4\% | 23\% | 73\% | 6\% | 16\% | 77\% | 6\% | 10\% | 85\% | 6\% | 11\% | 83\% | 61\% | 11\% | 28\% | 77\% | 6\% | 17\% |
| 18_11 | US 192 \& Delaware Ave | 87\% | 3\% | 10\% | 90\% | 3\% | 7\% | 3\% | 14\% | 83\% | 2\% | 11\% | 88\% | 2\% | 12\% | 86\% | 6\% | 15\% | 79\% | 62\% | 17\% | 21\% | 61\% | 17\% | 22\% |
| 18_12 | US 192 \& CR 534 | 44\% | 14\% | 42\% | 65\% | 9\% | 26\% | 11\% | 21\% | 68\% | 10\% | 17\% | 73\% | 12\% | 30\% | 58\% | 11\% | 34\% | 56\% | 47\% | 9\% | 43\% | 50\% | 7\% | 43\% |
| 19_1 | CR 532 \& Masters Blvd | 42\% | 8\% | 50\% | 51\% | 5\% | 44\% | - | - | - | - | - | - | 6\% | 16\% | 78\% | 6\% | 16\% | 78\% | 28\% | 21\% | 51\% | 40\% | 18\% | 42\% |
| 19_2 | CR 532 \& Calder Blvd | 24\% | 21\% | 55\% | 28\% | 18\% | 53\% | 0\% | 12\% | 88\% | 1\% | 11\% | 88\% | 10\% | 22\% | 68\% | 8\% | 18\% | 74\% | 25\% | 16\% | 59\% | 40\% | 14\% | 45\% |
| 19_3 | CR 532 \& 14 WB Off Ramp | 7\% | 21\% | 72\% | 10\% | 22\% | 69\% |  | - |  | - | - | - | 26\% | 25\% | 50\% | 49\% | 15\% | 35\% | 77\% | 12\% | 11\% | 82\% | 13\% | 5\% |
| 19_4 | CR 532 \& CR 532 To I-4 | 67\% | 24\% | 8\% | 67\% | 28\% | 5\% | 68\% | 2\% | 30\% | 74\% | 2\% | 24\% | - | - | - | - |  |  | 11\% | 11\% | 78\% | 14\% | 16\% | 69\% |
| 19_5 | CR 532 \& Heritage Pass | 56\% | 16\% | 28\% | 67\% | 12\% | 21\% | 12\% | 84\% | 4\% | 13\% | 81\% | 6\% | 0\% | 67\% | 33\% | 0\% | 0\% | 100 | 63\% | 10\% | 27\% | 70\% | 5\% | 25\% |
| 19_6 | CR 532 \& Legacy Village Dr | 98\% | 1\% | 0\% | 99\% | 0\% | 1\% | 0\% | 50\% | 50\% | 0\% | 62\% | 38\% | 0\% | 50\% | 50\% | 0\% | 50\% | 50\% | 97\% | 2\% | 1\% | 97\% | 2\% | 1\% |
| 19_7 | CR 532 \& Reuinion Blvd | 76\% | 11\% | 13\% | 79\% | 10\% | 12\% | 0\% | 37\% | 63\% | 0\% | 27\% | 73\% | 1\% | 20\% | 79\% | 3\% | 29\% | 68\% | 74\% | 10\% | 16\% | 74\% | 6\% | 20\% |
| 19_8 | CR 532 \& Old lake Wilson Rd | 9\% | 20\% | 71\% | 9\% | 21\% | 71\% | 46\% | 34\% | 19\% | 37\% | 42\% | 21\% | 2\% | 5\% | 94\% | 1\% | 3\% | 97\% | 15\% | 15\% | 70\% | 9\% | 15\% | 76\% |
| 20_1 | Good Homes Rd \& Balboa Dr | - |  | - | - | - | - | 52\% | 18\% | 30\% | 40\% | 21\% | 39\% | 55\% | 13\% | 32\% | 50\% | 11\% | 39\% | 5\% | 10\% | 85\% | 4\% | 12\% | 84\% |
| 20_2 | Good Homes Rd \& E Orolando Ave | 4\% | 20\% | 76\% | 6\% | 20\% | 74\% | 41\% | 23\% | 35\% | 49\% | 23\% | 28\% | 41\% | 14\% | 45\% | 38\% | 14\% | 48\% | 8\% | 10\% | 82\% | 5\% | 10\% | 85\% |
| 21_1 | Pine Hills Rd \& Balboa Dr | 8\% | 21\% | 71\% | 7\% | 16\% | 77\% | 50\% | 14\% | 37\% | 49\% | 15\% | 35\% | 41\% | 8\% | 52\% | 44\% | 16\% | 40\% | 5\% | 17\% | 78\% | 4\% | 19\% | 77\% |
| 21_2 | Pine Hills Rd \& Dolores Dr | 0\% | 0\% | 0\% | 0\% | 0\% | 100 | 86\% | 8\% | 6\% | 84\% | 6\% | 10\% | 87\% | 6\% | 7\% | 79\% | 7\% | 14\% | 0\% | 17\% | 83\% | 4\% | 36\% | 60\% |

metroplan orlando
metroplan orlando
Table 13 Cont.: PM Signal Progression

| Int ID | Intersection Name | Percent of Motorists who Continue, Slow Down, and Stop (\%) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Eastbound |  |  |  |  |  | Northbound |  |  |  |  |  | Westbound |  |  |  |  |  | Southbound |  |  |  |  |  |
|  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  | Before |  |  | After |  |  |
|  |  | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop | Cont. | Slow | Stop |
| 21_3 | Pine Hills Rd \& Hernandes Dr | 4\% | 4\% | 92\% | 0\% | 0\% | 100 | 68\% | 14\% | 17\% | 56\% | 13\% | 30\% | 67\% | 16\% | 16\% | 75\% | 11\% | 14\% | 6\% | 37\% | 57\% | 12\% | 28\% | 60\% |
| 21_4 | Pine Hills Rd \& Indialantic Dr | 8\% | 21\% | 71\% | 2\% | 24\% | 74\% | 25\% | 9\% | 67\% | 56\% | 13\% | 31\% | 27\% | 12\% | 60\% | 54\% | 8\% | 38\% | 2\% | 30\% | 68\% | 1\% | 19\% | 80\% |
| 21_5 | Pine Hills Rd \& SR 438 | 10\% | 11\% | 79\% | 5\% | 8\% | 87\% | 2\% | 7\% | 91\% | 6\% | 8\% | 86\% | 6\% | 11\% | 83\% | 12\% | 10\% | 78\% | 3\% | 6\% | 91\% | 1\% | 2\% | 98\% |
| 21_6 | Pine Hills Rd \& Belco Dr | 6\% | 29\% | 65\% | 4\% | 28\% | 68\% | 45\% | 13\% | 43\% | 67\% | 11\% | 22\% | 36\% | 14\% | 50\% | 39\% | 11\% | 50\% | 0\% | 100 | 0\% | 0\% | 50\% | 50\% |
| 21_7 | Pine Hills Rd \& Londonderry Blvd | - | - | - | - | - | - | 63\% | 13\% | 23\% | 73\% | 11\% | 16\% | 39\% | 9\% | 51\% | 72\% | 9\% | 19\% | 5\% | 24\% | 72\% | 1\% | 29\% | 70\% |
| 21_8 | Pine Hills Rd \& Indian Hills Rd | 12\% | 24\% | 64\% | 5\% | 19\% | 76\% | 84\% | 3\% | 13\% | 65\% | 12\% | 22\% | 46\% | 11\% | 43\% | 50\% | 11\% | 38\% | - |  |  | - |  |  |
| 21_9 | Pine Hills Rd \& North Lane | 16\% | 12\% | 72\% | 6\% | 12\% | 82\% | 8\% | 9\% | 83\% | 11\% | 13\% | 76\% | 21\% | 13\% | 66\% | 22\% | 11\% | 68\% | 14\% | 24\% | 62\% | 14\% | 21\% | 65\% |
| 22_1 | Maitland Ave \& E Horatio Ave | 10\% | 28\% | 62\% | 0\% | 10\% | 90\% | 20\% | 10\% | 70\% | 30\% | 8\% | 62\% | 22\% | 12\% | 66\% | 27\% | 19\% | 55\% | 8\% | 27\% | 65\% | 8\% | 15\% | 77\% |
| 22_2 | Maitland Ave \& Sandspur Rd | 2\% | 17\% | 82\% | 0\% | 15\% | 85\% | 55\% | 13\% | 32\% | 55\% | 10\% | 35\% | 33\% | 13\% | 54\% | 43\% | 16\% | 41\% | - |  | - | - |  |  |
| 22_3 | Maitland Ave \& Marion Way | 0\% | 17\% | 83\% | 0\% | 16\% | 84\% | 45\% | 11\% | 44\% | 26\% | 8\% | 66\% | 74\% | 7\% | 19\% | 70\% | 8\% | 22\% | 1\% | 23\% | 77\% | 0\% | 20\% | 80\% |
| 22_4 | Maitland Ave \& SR 414 | 24\% | 13\% | 64\% | 19\% | 8\% | 72\% | 7\% | 8\% | 85\% | 6\% | 14\% | 80\% | 14\% | 12\% | 74\% | 16\% | 16\% | 68\% | 23\% | 7\% | 70\% | 27\% | 7\% | 66\% |
| 23_1 | Hiawassee Rd \& Edgewater Dr | 9\% | 16\% | 75\% | 11\% | 19\% | 70\% | 35\% | 6\% | 59\% | 46\% | 8\% | 46\% | 59\% | 7\% | 35\% | 34\% | 7\% | 59\% | 7\% | 6\% | 87\% | 7\% | 5\% | 88\% |
| 23_2 | Hiawassee Rd \& Walmart | 3\% | 18\% | 79\% | 3\% | 12\% | 85\% | 52\% | 12\% | 36\% | 42\% | 14\% | 44\% | 32\% | 22\% | 47\% | 63\% | 16\% | 21\% | 1\% | 23\% | 77\% | 2\% | 21\% | 77\% |
| 24_1 | Hiawassee Rd \& SR 408 EB | 44\% | 15\% | 42\% | 49\% | 13\% | 38\% | 32\% | 9\% | 58\% | 49\% | 12\% | 39\% | 63\% | 4\% | 33\% | 63\% | 3\% | 34\% | - |  | - | - | - | - |
| 24_2 | Hiawassee Rd \& SR 408 WB | - | - | - | - | - | - | 68\% | 11\% | 21\% | 66\% | 9\% | 25\% | 58\% | 13\% | 29\% | 56\% | 8\% | 36\% | 16\% | 22\% | 61\% | 25\% | 17\% | 58\% |
| 24_3 | Hiawassee Rd \& W Colonial Dr | 18\% | 15\% | 67\% | 13\% | 15\% | 72\% | 6\% | 4\% | 90\% | 12\% | 12\% | 76\% | 18\% | 10\% | 72\% | 27\% | 14\% | 59\% | 38\% | 16\% | 46\% | 22\% | 16\% | 62\% |
| 24_4 | Hiawassee Rd \& Orange County MultiCultural Center | 2\% | 8\% | 90\% | 2\% | 11\% | 87\% | 73\% | 18\% | 9\% | 75\% | 15\% | 10\% | 87\% | 8\% | 4\% | 79\% | 7\% | 14\% | - |  | - | - | - | - |
| 24_5 | Hiawassee Rd \& Vernon St | 13\% | 10\% | 76\% | 8\% | 8\% | 84\% | 61\% | 7\% | 32\% | 44\% | 7\% | 49\% | 37\% | 10\% | 53\% | 28\% | 9\% | 62\% | 2\% | 9\% | 89\% | 4\% | 11\% | 85\% |
| 24_6 | Hiawassee Rd \& Hennepin Blvd | 0\% | 17\% | 83\% | 0\% | 15\% | 85\% | 72\% | 8\% | 20\% | 79\% | 10\% | 10\% | 79\% | 11\% | 9\% | 74\% | 10\% | 17\% | 11\% | 14\% | 75\% | 15\% | 20\% | 66\% |
| 24_7 | Hiawassee Rd \& SR438 | 13\% | 10\% | 77\% | 12\% | 10\% | 78\% | 3\% | 4\% | 93\% | 4\% | 4\% | 92\% | 9\% | 17\% | 74\% | 13\% | 11\% | 76\% | 5\% | 11\% | 85\% | 6\% | 13\% | 81\% |
| 24_8 | Hiawassee Rd \& Super Beauty Depot | 0\% | 40\% | 60\% | 0\% | 38\% | 62\% | 37\% | 28\% | 35\% | 67\% | 18\% | 15\% | 43\% | 15\% | 42\% | 38\% | 14\% | 48\% | 1\% | 37\% | 62\% | 0\% | 31\% | 69\% |
| 24_9 | Hiawassee Rd \& Coral Cove Dr | 5\% | 16\% | 79\% | 2\% | 15\% | 83\% | 54\% | 16\% | 29\% | 67\% | 12\% | 21\% | 52\% | 10\% | 38\% | 70\% | 6\% | 24\% | 3\% | 21\% | 76\% | 3\% | 21\% | 76\% |
| 24_10 | Hiawassee Rd \& Hiawassee Oak Dr | 0\% | 10\% | 90\% | 0\% | 17\% | 83\% | 85\% | 4\% | 11\% | 82\% | 5\% | 13\% | 80\% | 13\% | 7\% | 53\% | 18\% | 29\% | - | - | - | - | - | - |
| 24_11 | Hiawassee Rd \& Clarcona Ocoee Rd | 23\% | 9\% | 67\% | 28\% | 12\% | 60\% | 9\% | 11\% | 80\% | 8\% | 8\% | 84\% | 14\% | 11\% | 75\% | 2\% | 3\% | 94\% | 12\% | 10\% | 77\% | 17\% | 9\% | 73\% |
| 24_12 | Hiawassee Rd \& Beggs Rd | 8\% | 5\% | 87\% | 9\% | 4\% | 88\% | 56\% | 13\% | 31\% | 62\% | 6\% | 32\% | 66\% | 8\% | 26\% | 37\% | 12\% | 51\% | 12\% | 10\% | 79\% | 6\% | 8\% | 87\% |
| 24_13 | Hiawassee Rd \& SR 414 EB Ramp | 53\% | 26\% | 21\% | 58\% | 22\% | 19\% | 54\% | 17\% | 28\% | 46\% | 15\% | 39\% | 91\% | 9\% | 0\% | 87\% | 12\% | 1\% | - | - | - | - | - | - |
| 24_14 | Hiawassee Rd \& SR 414 WB Ramp | - | - | - | - | - | - | 95\% | 5\% | 0\% | 95\% | 5\% | 0\% | 89\% | 3\% | 9\% | 73\% | 6\% | 21\% | 53\% | 27\% | 20\% | 67\% | 21\% | 12\% |
| 24_15 | Hiawassee Rd \& Wekiva High School | - | - | - | - | - | - | 87\% | 4\% | 9\% | 86\% | 6\% | 8\% | 90\% | 4\% | 7\% | 86\% | 4\% | 11\% | 0\% | 8\% | 92\% | 0\% | 22\% | 78\% |
| 25_1 | Park Ave \& E 5th St | 3\% | 15\% | 82\% | 6\% | 17\% | 77\% | 33\% | 34\% | 34\% | 32\% | 35\% | 33\% | 27\% | 37\% | 35\% | 41\% | 32\% | 28\% | 4\% | 17\% | 79\% | 4\% | 24\% | 72\% |
| 25_2 | Park Ave \& SR 500 | 8\% | 11\% | 81\% | 19\% | 23\% | 59\% | 10\% | 11\% | 79\% | 7\% | 11\% | 81\% | 10\% | 15\% | 74\% | 7\% | 13\% | 80\% | 1\% | 6\% | 93\% | 4\% | 7\% | 89\% |
| 26_1 | Vick Rd \& SR 500 | 29\% | 6\% | 65\% | 36\% | 2\% | 62\% | 13\% | 10\% | 77\% | 9\% | 11\% | 80\% | 6\% | 11\% | 83\% | 11\% | 8\% | 80\% | 18\% | 9\% | 73\% | 41\% | 8\% | 51\% |
| 26_2 | Vick Rd \& Edgewater Dr | 11\% | 9\% | 80\% | 11\% | 10\% | 79\% | 65\% | 12\% | 23\% | 62\% | 11\% | 27\% | 40\% | 13\% | 48\% | 39\% | 13\% | 48\% | 7\% | 18\% | 75\% | 6\% | 21\% | 72\% |

*Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively

Table 14: Average Number of Stops and Slow Downs
Average Number of Stops and Slow Downs by End-to-End Traveler (\#)

AM Peak Period


| 1 | Hiawassee Road |
| :---: | :--- |
| 2 | Metrowes Bour |


| $\mathbf{2}$ | Metrowest Boulevard |
| :--- | :--- |

4 Millenia Blvd

| 5 | Vineland Road |
| :---: | :--- |
| 6 | Apopka Vineland Road |

7 Conroy Windermere Road
$8^{1}$
Good Homes Road/Old Winter Garden Road
SR 408 WB Ramps to Kirkman Road
Kirkman Road to Ferguson Drive West Road/Clarcona Ocoee Road SR 408 WB Ramps to Kirkman Road B Kirkman Road to Ferguson Drive
101 Beggs Road/Edgewater Drive
10A
Overland Road to Mott Avenue
Mott Avenue to All American Boulevard
John Young Parkway
SR 426
SR 434
$4^{2}$ US17/92
SR 436
SR 434
Sand Lake Road (Weekday)
Sand Lake Road (Weekend)
US 192
9 CR 532
20 Good Homes Road
1 Pine Hills Road
Maitland Avenue
23 Hiawassee Road (Apopka)
24 Hiawassee Road (Orange)
5 Park Avenue
Park Avenu

|  | 0.9 | 1.3 | 1.1 | 1.5 | 1.3 | 1.5 | 1.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

*Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively

## Travelled Speed

The average speed vehicles traveled along the corridor before and after the retiming was also considered. Signal retiming may smooth the speeds along the corridor allowing vehicles to travel at a consistent speed, rather than speeding up and slowing down repeatedly. Travelled speed is also an effective metric to measure the effectiveness of a retiming implementation that seeks to increase compliance with the posted speed. Additionally, understanding the speed distribution along a corridor can help identify segments with high rates of speeding, which may create unsafe conditions along the corridor.

Table 15 shows the percentage of vehicles exceeding and following the speed limit before and after the retiming. The maximum recorded speed over the posted speed limit for the AM peak period and PM peak period is shown in Table 16 and Table 17, respectively.

The corridor retiming projects resulted in reducing the percentage of people speeding along a corridor for 12 of 21 corridors (57\%) during the AM peak period and 6 of 21 corridors (29\%) during the PM peak period.

Table 15: Speed Relative to the Posted Speed

| Corrido r No. | Road | AM Peak Period |  |  |  |  |  |  |  |  |  |  |  | PM Peak Period |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Northbound/Eastbound |  |  |  |  |  | Southbound/Westbound |  |  |  |  |  | Northbound/Eastbound |  |  |  |  |  | Southbound/Westbound |  |  |  |  |  |
|  |  | Exceeds Posted Spd. |  |  | At/Below Posted Spd |  |  | Exceeds Posted Spd. |  |  | At/Below Posted Spd |  |  | Exceeds Posted Spd. |  |  | At/Below Posted Spd |  |  | Exceeds Posted Spd. |  |  | At/Below Posted Spd |  |  |
|  |  | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ |
| 1 | Hiawassee Road | 56\% | 53\% | 3\% | 44\% | 47\% | -3\% | 37\% | 45\% | -9\% | 63\% | 55\% | 9\% | 37\% | 39\% | -2\% | 63\% | 61\% | 2\% | 38\% | 41\% | -3\% | 62\% | 59\% | 3\% |
| 2 | Metrowest Boulevard | 47\% | 45\% | 2\% | 53\% | 55\% | -2\% | 34\% | 33\% | 1\% | 66\% | 67\% | -1\% | 34\% | 34\% | 1\% | 66\% | 66\% | -1\% | 34\% | 32\% | 1\% | 66\% | 68\% | -1\% |
| 3 | Universal Boulevard | 80\% | 67\% | 12\% | 20\% | 33\% | -12\% | 67\% | 61\% | 6\% | 33\% | 39\% | -6\% | 72\% | 70\% | 2\% | 28\% | 30\% | -2\% | 66\% | 65\% | 2\% | 34\% | 35\% | -2\% |
| 4 | Millenia Blvd | 37\% | 34\% | 4\% | 63\% | 66\% | -4\% | 61\% | 68\% | -7\% | 39\% | 32\% | 7\% | 26\% | 28\% | -2\% | 74\% | 72\% | 2\% | 43\% | 47\% | -4\% | 57\% | 53\% | 4\% |
| 5 | Vineland Road | 36\% | 35\% | 1\% | 64\% | 65\% | -1\% | 33\% | 39\% | -6\% | 67\% | 61\% | 6\% | 25\% | 29\% | -4\% | 75\% | 71\% | 4\% | 24\% | 35\% | -11\% | 76\% | 65\% | 11\% |
| 6 | Apopka Vineland Road | 64\% | 63\% | 1\% | 36\% | 37\% | -1\% | 41\% | 44\% | -3\% | 59\% | 56\% | 3\% | 42\% | 45\% | -4\% | 58\% | 55\% | 4\% | 43\% | 53\% | -9\% | 57\% | 47\% | 9\% |
| 7 | Conroy Windermere Road | 70\% | 64\% | 6\% | 30\% | 36\% | -6\% | 44\% | 44\% | 0\% | 56\% | 56\% | 0\% | 48\% | 48\% | 0\% | 52\% | 52\% | 0\% | 29\% | 38\% | -9\% | 71\% | 62\% | 9\% |
| $8^{1}$ | Good Homes Road/OId Winter Garden Road | 32\% | 34\% | -2\% | 68\% | 66\% | 2\% | 41\% | 33\% | 8\% | 59\% | 67\% | -8\% | 35\% | 37\% | -3\% | 65\% | 63\% | 3\% | 34\% | 39\% | -5\% | 66\% | 61\% | 5\% |
| 8A | SR 408 WB Ramps to Kirkman Road | 33\% | 40\% | -7\% | 67\% | 60\% | 7\% | 51\% | 37\% | 14\% | 49\% | 63\% | -14\% | 36\% | 28\% | 8\% | 64\% | 72\% | -8\% | 49\% | 47\% | 2\% | 51\% | 53\% | -2\% |
| $8 B$ | Kirkman Road to Ferguson Drive | 31\% | 29\% | 3\% | 69\% | 71\% | -3\% | 31\% | 29\% | 2\% | 69\% | 71\% | -2\% | 33\% | 47\% | -14\% | 67\% | 53\% | 14\% | 19\% | 30\% | -12\% | 81\% | 70\% | 12\% |
| 91 | West Road/Clarcona Ocoee Road | 73\% | 64\% | 9\% | 27\% | 36\% | -9\% | 77\% | 75\% | 2\% | 23\% | 25\% | -2\% | 70\% | 72\% | -2\% | 30\% | 28\% | 2\% | 66\% | 72\% | -6\% | 34\% | 28\% | 6\% |
| 9 A | SR 408 WB Ramps to Kirkman Road | 89\% | 90\% | 0\% | 11\% | 10\% | 0\% | 89\% | 91\% | -3\% | 11\% | 9\% | 3\% | 92\% | 94\% | -2\% | 8\% | 6\% | 2\% | 92\% | 96\% | -4\% | 8\% | 4\% | 4\% |
| 98 | Kirkman Road to Ferguson Drive | 56\% | 39\% | 18\% | 44\% | 61\% | -18\% | 65\% | 58\% | 7\% | 35\% | 42\% | -7\% | 49\% | 51\% | -2\% | 51\% | 49\% | 2\% | 41\% | 49\% | -8\% | 59\% | 51\% | 8\% |
| $10^{1}$ | Beggs Road/Edgewater Drive | 25\% | 27\% | -2\% | 75\% | 73\% | 2\% | 30\% | 37\% | -7\% | 70\% | 63\% | 7\% | 25\% | 23\% | 1\% | 75\% | 77\% | -1\% | 23\% | 24\% | -1\% | 77\% | 76\% | 1\% |
| 10A | Overland Road to Mott Avenue | 10\% | 10\% | -1\% | 90\% | 90\% | 1\% | 14\% | 21\% | -7\% | 86\% | 79\% | 7\% | 14\% | 12\% | 2\% | 86\% | 88\% | -2\% | 20\% | 20\% | 0\% | 80\% | 80\% | 0\% |
| 10B | Mott Avenue to All American Boulevard | 40\% | 44\% | -3\% | 60\% | 56\% | 3\% | 46\% | 53\% | -7\% | 54\% | 47\% | 7\% | 36\% | 35\% | 1\% | 64\% | 65\% | -1\% | 26\% | 28\% | -2\% | 74\% | 72\% | 2\% |
| 11 | John Young Parkway | 75\% | 89\% | -13\% | 25\% | 11\% | 13\% | 84\% | 92\% | -8\% | 16\% | 8\% | 8\% | 76\% | 84\% | -8\% | 24\% | 16\% | 8\% | 80\% | 85\% | -5\% | 20\% | 15\% | 5\% |
| $12^{2}$ | SR 426 | 40\% | 43\% | -2\% | 60\% | 57\% | 2\% | 29\% | 30\% | 0\% | 71\% | 70\% | 0\% | 38\% | 47\% | -9\% | 62\% | 53\% | 9\% | 36\% | 33\% | 4\% | 64\% | 67\% | -4\% |
| $13^{2}$ | SR 434 | 42\% | 51\% | -10\% | 58\% | 49\% | 10\% | 54\% | 68\% | -14\% | 46\% | 32\% | 14\% | 49\% | 49\% | 0\% | 51\% | 51\% | 0\% | 58\% | 69\% | -11\% | 42\% | 31\% | 11\% |
| $14^{2}$ | US17/92 | 36\% | 38\% | -2\% | 64\% | 62\% | 2\% | 14\% | 39\% | -26\% | 86\% | 61\% | 26\% | 45\% | 37\% | 8\% | 55\% | 63\% | -8\% | 38\% | 30\% | 8\% | 62\% | 70\% | -8\% |
| $15^{2}$ | SR 436 | 37\% | 41\% | -5\% | 63\% | 59\% | 5\% | 53\% | 47\% | 6\% | 47\% | 53\% | -6\% | 39\% | 48\% | -9\% | 61\% | 52\% | 9\% | 59\% | 58\% | 1\% | 41\% | 42\% | -1\% |
| $16^{2}$ | SR 434 | 44\% | 53\% | -9\% | 56\% | 47\% | 9\% | 37\% | 44\% | -8\% | 63\% | 56\% | 8\% | 38\% | 45\% | -7\% | 62\% | 55\% | 7\% | 40\% | 58\% | -18\% | 60\% | 42\% | 18\% |
|  | Sand Lake Road (Weekday) | 17\% | 19\% | -1\% | 83\% | 81\% | 1\% | 54\% | 51\% | 3\% | 46\% | 49\% | -3\% | 23\% | 25\% | -2\% | 77\% | 75\% | 2\% | 51\% | 57\% | -7\% | 49\% | 43\% | 7\% |
| $17^{3}$ | Sand Lake Road (Weekend) | 40\% | 39\% | 0\% | 60\% | 61\% | 0\% | 68\% | 68\% | 0\% | 32\% | 32\% | 0\% | 48\% | 45\% | 3\% | 52\% | 55\% | -3\% | 74\% | 73\% | 1\% | 26\% | 27\% | -1\% |
| 18 | US 192 | 38\% | 47\% | -9\% | 62\% | 53\% | 9\% | 37\% | 35\% | 2\% | 63\% | 65\% | -2\% | 33\% | 34\% | -1\% | 67\% | 66\% | 1\% | 29\% | 29\% | 0\% | 71\% | 71\% | 0\% |
| 19 | CR 532 | 17\% | 15\% | 3\% | 83\% | 85\% | -3\% | 20\% | 22\% | -2\% | 80\% | 78\% | 2\% | 8\% | 14\% | -6\% | 92\% | 86\% | 6\% | 10\% | 16\% | -7\% | 90\% | 84\% | 7\% |
| 20 | Good Homes Road | 10\% | 9\% | 1\% | 90\% | 91\% | -1\% | 4\% | 3\% | 0\% | 96\% | 97\% | 0\% | 2\% | 4\% | -2\% | 98\% | 96\% | 2\% | 2\% | 2\% | 0\% | 98\% | 98\% | 0\% |
| 21 | Pine Hills Road | 57\% | 55\% | 2\% | 43\% | 45\% | -2\% | 57\% | 45\% | 12\% | 43\% | 55\% | -12\% | 48\% | 52\% | -5\% | 52\% | 48\% | 5\% | 42\% | 47\% | -5\% | 58\% | 53\% | 5\% |
| 22 | Maitland Avenue | 53\% | 59\% | -5\% | 47\% | 41\% | 5\% | 40\% | 46\% | -6\% | 60\% | 54\% | 6\% | 48\% | 43\% | 5\% | 52\% | 57\% | -5\% | 46\% | 53\% | -7\% | 54\% | 47\% | 7\% |
| 23 | Hiawassee Road (Apopka) | 21\% | 33\% | -13\% | 79\% | 67\% | 13\% | 41\% | 54\% | -13\% | 59\% | 46\% | 13\% | 15\% | 17\% | -1\% | 85\% | 83\% | 1\% | 33\% | 31\% | 2\% | 67\% | 69\% | -2\% |
| 24 | Hiawassee Road (Orange) | 55\% | 53\% | 3\% | 45\% | 47\% | -3\% | 48\% | 45\% | 3\% | 52\% | 55\% | -3\% | 47\% | 54\% | -7\% | 53\% | 46\% | 7\% | 56\% | 51\% | 5\% | 44\% | 49\% | -5\% |
| 25 | Park Avenue | 70\% | 72\% | -1\% | 30\% | 28\% | 1\% | 59\% | 58\% | 2\% | 41\% | 42\% | -2\% | 61\% | 63\% | -2\% | 39\% | 37\% | 2\% | 54\% | 48\% | 5\% | 46\% | 52\% | -5\% |
| 26 | Vick Road | 20\% | 19\% | 1\% | 80\% | 81\% | -1\% | 3\% | 2\% | 1\% | 97\% | 98\% | -1\% | 21\% | 17\% | 4\% | 79\% | 83\% | -4\% | 4\% | 4\% | 0\% | 96\% | 96\% | 0\% |

Table 16: AM Peak Period Maximum Speed Travelled over Posted Speed Limit

| Corridor No. | Name | Northbound/Eastbound |  |  |  |  |  |  |  |  |  |  |  | Southbound/Westbound |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | At/Below Posted |  |  | Exceeds Posted |  |  | Exceeds Posted <5 mph |  |  | Exceeds Posted <10 mph |  |  | At/Below Posted |  |  | Exceeds Posted |  |  | Exceeds Posted <5 mph |  |  | Exceeds Posted <10 mph |  |  |
|  |  | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ |
| 1 | Hiawassee Road | 15\% | 19\% | -4\% | 22\% | 22\% | 0\% | 36\% | 32\% | 4\% | 27\% | 27\% | 0\% | 10\% | 6\% | 4\% | 41\% | 24\% | 17\% | 30\% | 43\% | -13\% | 18\% | 27\% | -8\% |
| 2 | Metrowest Boulevard | 15\% | 13\% | 2\% | 40\% | 42\% | -2\% | 30\% | 34\% | -3\% | 15\% | 11\% | 3\% | 36\% | 33\% | 4\% | 32\% | 38\% | -6\% | 23\% | 21\% | 2\% | 8\% | 8\% | 0\% |
| 3 | Universal Boulevard | 0\% | 0\% | 0\% | 0\% | 8\% | -8\% | 17\% | 21\% | -4\% | 83\% | 71\% | 12\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 18\% | -18\% | 100\% | 82\% | 18 $\%$ |
| 4 | Millenia Blvd | 0\% | 0\% | 0\% | 9\% | 15\% | -7\% | 38\% | 34\% | 4\% | 54\% | 51\% | 3\% | 1\% | 1\% | 0\% | 15\% | 13\% | 2\% | 41\% | 48\% | -7\% | 43\% | 38\% | 5\% |
| 5 | Vineland Road | 48\% | 48\% | 0\% | 27\% | 32\% | -5\% | 17\% | 14\% | 3\% | 8\% | 6\% | 2\% | 39\% | 38\% | 1\% | 40\% | 34\% | 6\% | 17\% | 20\% | -3\% | 4\% | 8\% | -4\% |
| 6 | Apopka Vineland Road | 1\% | 1\% | 0\% | 20\% | 15\% | 5\% | 39\% | 43\% | -4\% | 39\% | 40\% | -1\% | 3\% | 5\% | -2\% | 23\% | 19\% | 4\% | 44\% | 41\% | 2\% | 31\% | 35\% | -4\% |
| 7 | Conroy Windermere Road | 1\% | 0\% | 1\% | 4\% | 3\% | 1\% | 14\% | 16\% | -2\% | 81\% | 80\% | 1\% | 1\% | 0\% | 1\% | 7\% | 8\% | -1\% | 23\% | 22\% | 1\% | 69\% | 70\% | 0\% |
| $8^{1}$ | Good Homes Road/Old Winter Garden Road | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8A | SR 408 WB Ramps to Kirkman Road | 11\% | 4\% | 7\% | 44\% | 23\% | 21\% | 0\% | 20\% | -20\% | 44\% | 52\% | -8\% | 0\% | 0\% | 0\% | 24\% | 45\% | -22\% | 17\% | 14\% | 4\% | 59\% | 41\% | 18 $\%$ |
| 8B | Kirkman Road to Ferguson Drive | 3\% | 5\% | -2\% | 22\% | 21\% | 1\% | 40\% | 39\% | 1\% | 34\% | 35\% | -1\% | 16\% | 13\% | 4\% | 40\% | 44\% | -4\% | 32\% | 29\% | 3\% | 12\% | 14\% | -2\% |
| 91 | West Road/Clarcona Ocoee Road | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9A | SR 408 WB Ramps to Kirkman Road | 0\% | 0\% | 0\% | 2\% | 0\% | 2\% | 8\% | 3\% | 5\% | 90\% | 97\% | -7\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 9\% | 4\% | 5\% | 91\% | 96\% | -5\% |
| 9B | Kirkman Road to Ferguson Drive | 2\% | 2\% | -1\% | 17\% | 30\% | -13\% | 46\% | 46\% | 0\% | 36\% | 22\% | 14\% | 2\% | 1\% | 1\% | 14\% | 20\% | -6\% | 45\% | 53\% | -8\% | 40\% | 26\% | 14 $\%$ |
| $10^{1}$ | Beggs Road/Edgewater Drive | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10A | Overland Road to Mott Avenue | 56\% | 43\% | 14\% | 28\% | 42\% | -13\% | 12\% | 11\% | 0\% | 4\% | 4\% | -1\% | 58\% | 27\% | 31\% | 29\% | 48\% | -19\% | 10\% | 19\% | -9\% | 3\% | 6\% | -3\% |
| 10B | Mott Avenue to All American Boulevard | 23\% | 15\% | 8\% | 41\% | 43\% | -2\% | 23\% | 26\% | -3\% | 13\% | 16\% | -3\% | 12\% | 13\% | -1\% | 27\% | 24\% | 3\% | 37\% | 31\% | 5\% | 25\% | 32\% | -7\% |
| 11 | John Young Parkway | 0\% | 0\% | 0\% | 1\% | 0\% | 1\% | 9\% | 5\% | 4\% | 90\% | 95\% | -5\% | 0\% | 0\% | 0\% | 1\% | 0\% | 1\% | 5\% | 3\% | 2\% | 93\% | 97\% | -3\% |
| $12^{2}$ | SR 426 | 7\% | 1\% | 6\% | 52\% | 58\% | -6\% | 27\% | 33\% | -6\% | 14\% | 8\% | 6\% | 11\% | 9\% | 2\% | 38\% | 51\% | -13\% | 43\% | 31\% | 12\% | 8\% | 9\% | -1\% |
| $13^{2}$ | SR 434 | 0\% | 0\% | 0\% | 4\% | 0\% | 4\% | 33\% | 26\% | 7\% | 63\% | 74\% | -11\% | 0\% | 0\% | 0\% | 15\% | 14\% | 1\% | 34\% | 25\% | 9\% | 52\% | 61\% | -9\% |
| $14^{2}$ | US17/92 | 8\% | 5\% | 3\% | 8\% | 1\% | 7\% | 21\% | 22\% | -1\% | 63\% | 72\% | -9\% | 30\% | 12\% | 18\% | 44\% | 59\% | -16\% | 21\% | 25\% | -4\% | 5\% | 3\% | $2 \%$ |
| $15^{2}$ | SR 436 | 1\% | 1\% | 0\% | 17\% | 25\% | -8\% | 53\% | 46\% | 7\% | 29\% | 27\% | 1\% | 1\% | 2\% | -1\% | 18\% | 21\% | -2\% | 39\% | 51\% | -11\% | 41\% | 27\% | 15 $\%$ |
| $16^{2}$ | SR 434 | 0\% | 6\% | -6\% | 31\% | 22\% | 9\% | 61\% | 39\% | 22\% | 8\% | 34\% | -26\% | 0\% | 0\% | 0\% | 44\% | 13\% | 31\% | 50\% | 60\% | -10\% | 6\% | 27\% | 21 <br> $\%$ |
|  | Sand Lake Road (Weekday) | 8\% | 6\% | 1\% | 48\% | 51\% | -3\% | 36\% | 37\% | -2\% | 8\% | 5\% | 3\% | 13\% | 15\% | -2\% | 57\% | 54\% | 3\% | 28\% | 27\% | 1\% | 3\% | 4\% | -2\% |
| $17{ }^{3}$ | Sand Lake Road (Weekend) | 0\% | 0\% | 0\% | 22\% | 24\% | -2\% | 59\% | 52\% | 7\% | 19\% | 24\% | -5\% | 5\% | 7\% | -3\% | 44\% | 44\% | 0\% | 40\% | 42\% | -1\% | 11\% | 7\% | 4\% |
| 18 | US 192 | 0\% | 1\% | -1\% | 22\% | 19\% | 2\% | 51\% | 41\% | 10\% | 27\% | 38\% | -12\% | 2\% | 1\% | 0\% | 27\% | 25\% | 2\% | 49\% | 52\% | -3\% | 23\% | 22\% | 1\% |
| 19 | CR 532 | 3\% | 11\% | -7\% | 32\% | 32\% | 1\% | 61\% | 39\% | 22\% | 3\% | 18\% | -15\% | 5\% | 0\% | 5\% | 10\% | 14\% | -4\% | 41\% | 47\% | -5\% | 44\% | 40\% | 4\% |
| 20 | Good Homes Road | 72\% | 70\% | 2\% | 23\% | 27\% | -4\% | 4\% | 2\% | 2\% | 1\% | 1\% | 0\% | 85\% | 87\% | -2\% | 15\% | 11\% | 4\% | 1\% | 2\% | -1\% | 0\% | 0\% | 0\% |
| 21 | Pine Hills Road | 0\% | 2\% | -2\% | 13\% | 17\% | -4\% | 29\% | 37\% | -7\% | 58\% | 45\% | 13\% | 0\% | 3\% | -3\% | 13\% | 25\% | -12\% | 32\% | 37\% | -5\% | 55\% | 35\% | 20 $\%$ |
| 22 | Maitland Avenue | 17\% | 0\% | 17\% | 44\% | 63\% | -19\% | 26\% | 19\% | 7\% | 13\% | 19\% | -5\% | 19\% | 15\% | 3\% | 51\% | 52\% | -1\% | 23\% | 31\% | -8\% | 7\% | 2\% | 5\% |
| 23 | Hiawassee Road (Apopka) | 32\% | 25\% | 7\% | 32\% | 40\% | -8\% | 22\% | 18\% | 4\% | 14\% | 17\% | -3\% | 37\% | 26\% | 11\% | 35\% | 37\% | -2\% | 23\% | 25\% | -2\% | 5\% | 12\% | -7\% |
| 24 | Hiawassee Road (Orange) | 4\% | 3\% | 1\% | 13\% | 12\% | 1\% | 27\% | 28\% | -2\% | 57\% | 57\% | -1\% | 1\% | 1\% | 0\% | 7\% | 12\% | -5\% | 34\% | 29\% | 5\% | 58\% | 58\% | 0\% |
| 25 | Park Avenue | 6\% | 5\% | 1\% | 44\% | 48\% | -4\% | 37\% | 39\% | -1\% | 12\% | 8\% | 4\% | 13\% | 9\% | 3\% | 27\% | 38\% | -11\% | 43\% | 35\% | 7\% | 18\% | 18\% | 0\% |
| 26 | Vick Road | 19\% | 34\% | -14\% | 40\% | 31\% | 9\% | 23\% | 29\% | -6\% | 19\% | 7\% | 12\% | 94\% | 96\% | -2\% | 5\% | 3\% | 2\% | 1\% | 1\% | 0\% | 0\% | 0\% | 0\% |

Table 17: PM Peak Period Maximum Speed Travelled over Posted Speed Limit

| Corridor No. | Name | Northbound/Eastbound |  |  |  |  |  |  |  |  |  |  |  | Southbound/Westbound |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | At/Below Posted |  |  | Exceeds Posted |  |  | Exceeds Posted <5 mph |  |  | Exceeds Posted <10 mph |  |  | At/Below Posted |  |  | Exceeds Posted |  |  | Exceeds Posted <5 mph |  |  | Exceeds Posted <10 mph |  |  |
|  |  | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ | Before | After | $\triangle$ |
| 1 | Hiawassee Road | 21\% | 20\% | 1\% | 37\% | 30\% | 7\% | 25\% | 34\% | -8\% | 16\% | 16\% | 1\% | 10\% | 9\% | 1\% | 29\% | 30\% | -1\% | 47\% | 42\% | 5\% | 14\% | 19\% | -5\% |
| 2 | Metrowest Boulevard | 27\% | 20\% | 6\% | 40\% | 47\% | -7\% | 23\% | 24\% | -1\% | 10\% | 9\% | 2\% | 29\% | 36\% | -7\% | 40\% | 39\% | 1\% | 24\% | 19\% | 6\% | 6\% | 6\% | 0\% |
| 3 | Universal Boulevard | 0\% | 0\% | 0\% | 2\% | 3\% | -1\% | 22\% | 25\% | -4\% | 77\% | 72\% | 5\% | 0\% | 0\% | 0\% | 0\% | 3\% | -3\% | 16\% | 33\% | -18\% | 84\% | 64\% | 21\% |
| 4 | Millenia BIvd | 3\% | 1\% | 1\% | 23\% | 15\% | 8\% | 42\% | 47\% | -5\% | 33\% | 37\% | -4\% | 9\% | 4\% | 5\% | 33\% | 31\% | 2\% | 38\% | 38\% | 0\% | 20\% | 27\% | -7\% |
| 5 | Vineland Road | 59\% | 51\% | 8\% | 25\% | 31\% | -6\% | 12\% | 14\% | -1\% | 4\% | 4\% | 0\% | 46\% | 35\% | 11\% | 36\% | 37\% | -1\% | 12\% | 18\% | -6\% | 6\% | 9\% | -3\% |
| 6 | Apopka Vineland Road | 3\% | 4\% | -1\% | 28\% | 26\% | 2\% | 45\% | 44\% | 0\% | 24\% | 25\% | -1\% | 2\% | 2\% | 0\% | 17\% | 15\% | 2\% | 48\% | 45\% | 3\% | 33\% | 39\% | -6\% |
| 7 | Conroy Windermere Road | 2\% | 2\% | 0\% | 19\% | 9\% | 10\% | 34\% | 28\% | 6\% | 44\% | 61\% | -17\% | 2\% | 2\% | -1\% | 15\% | 13\% | 2\% | 36\% | 32\% | 4\% | 47\% | 53\% | -5\% |
| $8^{1}$ | Good Homes Road/Old Winter Garden Road | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8A | SR 408 WB Ramps to Kirkman Road | 0\% | 17\% | -17\% | 35\% | 51\% | -15\% | 35\% | 8\% | 26\% | 30\% | 24\% | 6\% | 2\% | 6\% | -4\% | 16\% | 15\% | 0\% | 53\% | 40\% | 13\% | 29\% | 39\% | -9\% |
| 8B | Kirkman Road to Ferguson Drive | 13\% | 6\% | 7\% | 33\% | 22\% | 11\% | 28\% | 38\% | 10\% | 26\% | 34\% | -8\% | 34\% | 26\% | 8\% | 42\% | 41\% | 1\% | 17\% | 24\% | -7\% | 7\% | 9\% | -2\% |
| 91 | West Road/Clarcona Ocoee Road | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |  |
| 9A | SR 408 WB Ramps to Kirkman Road | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 100\% | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 10\% | 2\% | 8\% | 90\% | 98\% | -8\% |
| 9 B | Kirkman Road to Ferguson Drive | 5\% | 5\% | 0\% | 25\% | 23\% | 2\% | 41\% | 46\% | -5\% | 30\% | 27\% | 3\% | 5\% | 4\% | 1\% | 33\% | 27\% | 5\% | 44\% | 47\% | -3\% | 18\% | 22\% | -4\% |
| $10^{1}$ | Beggs Road/Edgewater Drive | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10A | Overland Road to Mott Ave. | 31\% | 42\% | -11\% | 52\% | 42\% | 10\% | 14\% | 12\% | 2\% | 2\% | 3\% | -1\% | 52\% | 40\% | 12\% | 34\% | 40\% | -6\% | 12\% | 17\% | -5\% | 2\% | 4\% | -2\% |
| 10B | Mott Avenue to All American Boulevard | 26\% | 22\% | 4\% | 39\% | 48\% | -8\% | 23\% | 20\% | 3\% | 12\% | 11\% | 1\% | 38\% | 30\% | 8\% | 35\% | 40\% | -5\% | 18\% | 22\% | -4\% | 9\% | 8\% | 0\% |
| 11 | John Young Parkway | 0\% | 0\% | 0\% | 0\% | 1\% | 0\% | 7\% | 4\% | 2\% | 93\% | 95\% | -2\% | 0\% | 1\% | -1\% | 1\% | 0\% | 1\% | 8\% | 6\% | 2\% | 91\% | 93\% | -2\% |
| $12^{2}$ | SR 426 | 14\% | 8\% | 6\% | 48\% | 34\% | 13\% | 33\% | 41\% | -9\% | 6\% | 16\% | -10\% | 7\% | 8\% | -1\% | 34\% | 49\% | -15\% | 42\% | 38\% | 4\% | 17\% | 5\% | 12\% |
| $13^{2}$ | SR 434 | 0\% | 0\% | 0\% | 3\% | 16\% | -13\% | 30\% | 14\% | 16\% | 68\% | 70\% | -2\% | 0\% | 0\% | 0\% | 8\% | 0\% | 8\% | 39\% | 42\% | -3\% | 53\% | 58\% | -6\% |
| $14^{2}$ | US17/92 | 1\% | 2\% | 0\% | 2\% | 4\% | -2\% | 24\% | 23\% | 1\% | 73\% | 71\% | 1\% | 10\% | 19\% | -9\% | 54\% | 42\% | 12\% | 33\% | 36\% | -4\% | 4\% | 3\% | 1\% |
| $15^{2}$ | SR 436 | 1\% | 2\% | -1\% | 19\% | 10\% | 9\% | 44\% | 53\% | -9\% | 36\% | 34\% | 2\% | 0\% | 0\% | 0\% | 10\% | 15\% | -4\% | 40\% | 46\% | -7\% | 50\% | 39\% | 11\% |
| $16^{2}$ | SR 434 | 0\% | 0\% | 0\% | 42\% | 33\% | 9\% | 35\% | 31\% | 4\% | 23\% | 36\% | -12\% | 11\% | 0\% | 11\% | 39\% | 22\% | 18\% | 31\% | 28\% | 4\% | 19\% | 51\% | 32\% |
|  | Sand Lake Road (Weekday) | 1\% | 1\% | 0\% | 34\% | 28\% | 6\% | 50\% | 51\% | -2\% | 16\% | 20\% | -4\% | 7\% | 7\% | 0\% | 55\% | 51\% | 4\% | 34\% | 37\% | -3\% | 4\% | 5\% | -1\% |
| $17^{3}$ | Sand Lake Road (Weekend) | 0\% | 0\% | 0\% | 13\% | 9\% | 5\% | 49\% | 62\% | 13\% | 38\% | 30\% | 8\% | 5\% | 4\% | 1\% | 43\% | 37\% | 6\% | 46\% | 53\% | -7\% | 7\% | 7\% | 0\% |
| 18 | US 192 | 1\% | 2\% | -1\% | 21\% | 22\% | -1\% | 53\% | 48\% | 5\% | 25\% | 28\% | -4\% | 2\% | 5\% | -2\% | 27\% | 30\% | -3\% | 46\% | 40\% | 5\% | 25\% | 25\% | 0\% |
| 19 | CR 532 | 10\% | 12\% | -2\% | 21\% | 39\% | -18\% | 38\% | 31\% | 7\% | 31\% | 19\% | 12\% | 6\% | 12\% | -6\% | 24\% | 28\% | -4\% | 45\% | 40\% | 5\% | 24\% | 20\% | 5\% |
| 20 | Good Homes Road | 94\% | 87\% | 7\% | 5\% | 11\% | -7\% | 0\% | 1\% | -1\% | 0\% | 0\% | 0\% | 93\% | 91\% | 2\% | 7\% | 8\% | -1\% | 1\% | 1\% | 0\% | 0\% | 0\% | 0\% |
| 21 | Pine Hills Road | 0\% | 2\% | -2\% | 15\% | 15\% | 0\% | 39\% | 44\% | -5\% | 46\% | 39\% | 6\% | 1\% | 2\% | -1\% | 24\% | 23\% | 1\% | 43\% | 42\% | 1\% | 32\% | 33\% | -1\% |
| 22 | Maitland Avenue | 21\% | 30\% | -9\% | 47\% | 48\% | -1\% | 26\% | 22\% | 5\% | 6\% | 0\% | 6\% | 18\% | 11\% | 7\% | 49\% | 48\% | 1\% | 26\% | 40\% | -14\% | 7\% | 0\% | 7\% |
| 23 | Hiawassee Road (Apopka) | 50\% | 39\% | 11\% | 24\% | 30\% | -6\% | 16\% | 17\% | -1\% | 10\% | 14\% | -4\% | 52\% | 63\% | 10\% | 29\% | 23\% | 6\% | 14\% | 9\% | 5\% | 5\% | 6\% | -1\% |
| 24 | Hiawassee Road (Orange) | 1\% | 0\% | 1\% | 18\% | 13\% | 5\% | 37\% | 37\% | 0\% | 44\% | 49\% | -5\% | 0\% | 1\% | -1\% | 6\% | 7\% | -1\% | 28\% | 44\% | -16\% | 65\% | 48\% | 18\% |
| 25 | Park Avenue | 17\% | 16\% | 2\% | 49\% | 49\% | 0\% | 28\% | 29\% | -1\% | 5\% | 6\% | -1\% | 13\% | 27\% | 14\% | 42\% | 33\% | 9\% | 29\% | 25\% | 4\% | 15\% | 15\% | 1\% |
| 26 | Vick Road | 52\% | 68\% | -16\% | 26\% | 18\% | 8\% | 15\% | 10\% | 6\% | 7\% | 4\% | 3\% | 92\% | 92\% | 0\% | 7\% | 7\% | -1\% | 1\% | 0\% | 1\% | 0\% | 0\% | 0\% |

 respectively Performance Measures

## Pedestrian Delay

Pedestrian delay was calculated at all intersections. The average pedestrian delay for each corridor is shown in Table 18. A full list of the pedestrian delay for each intersection is attached in Appendix D. Pedestrian delay was determined using HCM 6 ${ }^{\text {th }}$ Edition Equation 1970, as shown below.

$$
d_{p}=\frac{\left(C-g_{w a l k, m i}\right)^{2}}{2 C}
$$

If the phase providing service to the pedestrian is actuated with no rest in walk or pretimed,

$$
g_{w a l k, m i}=\text { Walk }_{m i}+4.0
$$

If the phase providing service to the pedestrian is actuated and rest in walk is enabled,

$$
g_{w a l k, m i}=D_{p, m i}-Y_{m i}-R_{c, m i}-P C_{m i}+4.0
$$

If there is no pedestrian signal head,

$$
\begin{gathered}
g_{\text {walk }, m i}=D_{p, m i}-Y_{m i}-R_{c, m i} \\
\mathrm{~d}_{\mathrm{p}}=\text { Pedestrian delay (sec/pedestrian) } \\
\mathrm{C}=\text { Cycle length (sec) }
\end{gathered}
$$

$g_{\text {walk,mi }}=$ Effective walk time serving the minor-street through movement (sec)
Walk $\mathrm{k}_{\mathrm{mi}}=$ Pedestrian walk setting for the phase serving the minor-street through movement (sec)
$\mathrm{D}_{\mathrm{p}, \mathrm{mi}}=$ Duration of the phase serving the minor-street through movement (sec)
$Y_{m i}=$ Yellow change interval of the phase serving the minor-street through movement (sec) $\mathrm{R}_{\mathrm{c}, \mathrm{mi}}=$ Red clearance interval of the phase serving the minor-street through movement (sec) $\mathrm{PC}_{\mathrm{mi}}=$ Pedestrian clear setting for the phase serving the minor-street through movement (sec)

The corridor retiming projects resulted in reducing the average pedestrian intersection delay at 4 of 21 corridors (19\%) during the AM peak period and 7 of 21 corridors (33\%) during the PM peak period.
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2020-2021 Travel Time Study \& Benefit Cost Analysis Performance Measures
a regional transportation partnership

Table 18: Pedestrian Delay

| Int ID | Intersection Name | Average Pedestrian Delay (sec) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AM (7-9 AM) |  |  | PM (4-6 PM) |  |  |
|  |  | Before | After | $\Delta$ | Before | After | $\triangle$ |
| 1 | Hiawassee Road | 72.3 | 72.3 | 0.0 | 77.9 | 77.9 | 0.0 |
| 2 | Metrowest Boulevard | 64.4 | 64.4 | 0.0 | 69.4 | 69.4 | 0.0 |
| 3 | Universal Boulevard | 47.0 | 47.0 | 0.0 | 43.1 | 43.1 | 0.0 |
| 4 | Millenia Blvd | 63.0 | 68.3 | (5.3) | 84.2 | 78.9 | 5.3 |
| 5 | Vineland Road | 43.8 | 56.4 | (12.5) | 42.5 | 65.1 | (22.5) |
| 6 | Apopka Vineland Road | 68.8 | 73.7 | (5.0) | 78.7 | 84.3 | (5.6) |
| 7 | Conroy Windermere Road | 83.3 | 83.3 | 0.0 | 91.8 | 95.2 | (3.4) |
| $8^{1}$ | Good Homes Road/Old Winter Garden Road | 62.2 | 68.1 | (5.9) | 73.7 | 74.0 | (0.3) |
| 8A | SR 408 WB Ramps to Kirkman Road | 65.4 | 74.4 | (9.0) | 79.3 | 78.8 | 0.5 |
| 8B | Kirkman Road to Ferguson Drive | 56.9 | 57.8 | (0.9) | 64.3 | 66.1 | (1.7) |
| 91 | West Road/Clarcona Ocoee Road | 53.4 | 66.7 | (13.3) | 62.3 | 79.3 | (17.0) |
| 9A | SR 408 WB Ramps to Kirkman Road | 50.2 | 80.9 | (30.7) | 47.9 | 80.9 | (33.0) |
| 9B | Kirkman Road to Ferguson Drive | 54.2 | 62.8 | (8.6) | 66.2 | 78.8 | (12.6) |
| $10^{1}$ | Beggs Road/Edgewater Drive | 68.1 | 71.2 | (3.1) | 78.7 | 70.9 | 7.8 |
| 10A | Overland Road to Mott Avenue | 65.8 | 57.8 | 8.0 | 69.8 | 60.7 | 9.1 |
| 10B | Mott Avenue to All American Boulevard | 70.4 | 84.6 | (14.3) | 87.6 | 81.2 | 6.4 |
| 11 | John Young Parkway | 66.2 | 71.0 | (4.8) | 74.1 | 75.7 | (1.6) |
| $12^{2}$ | SR 426 | 64.7 | 64.7 | 0.0 | 64.7 | 64.9 | (0.2) |
| $13^{2}$ | SR 434 | 69.3 | 66.6 | 2.7 | 69.3 | 66.6 | 2.7 |
| $14^{2}$ | US17/92 | 91.6 | 49.5 | 42.1 | 108.2 | 91.1 | 17.1 |
| $15^{2}$ | SR 436 | 69.4 | 69.4 | 0.0 | 69.4 | 69.4 | 0.0 |
| $16^{2}$ | SR 434 | 69.3 | 66.6 | 2.7 | 69.3 | 66.6 | 2.7 |
| 173 | Sand Lake Road (Weekday) | 69.6 | 67.2 | 2.4 | 112.4 | 102.3 | 10.1 |
|  | Sand Lake Road (Weekend) | 76.7 | 72.4 | 4.2 | 76.7 | 72.4 | 4.2 |
| 18 | US 192 | 73.7 | 86.9 | (13.2) | 92.6 | 88.3 | 4.3 |
| 19 | CR 532 | 79.0 | 59.4 | 19.6 | 89.0 | 69.3 | 19.6 |
| 20 | Good Homes Road | 34.7 | 34.7 | 0.0 | 40.5 | 40.5 | 0.0 |
| 21 | Pine Hills Road | 43.8 | 43.8 | 0.0 | 46.6 | 46.6 | 0.0 |
| 22 | Maitland Avenue | 71.5 | 69.1 | 2.4 | 71.5 | 69.1 | 2.4 |
| 23 | Hiawassee Road (Apopka) | 89.3 | 89.3 | 0.0 | 79.3 | 79.3 | 0.0 |
| 24 | Hiawassee Road (Orange) | 66.7 | 67.3 | (0.6) | 73.7 | 71.9 | 1.8 |
| 25 | Park Avenue | 44.4 | 43.8 | 0.6 | 36.4 | 50.0 | (13.6) |
| 26 | Vick Road | 67.2 | 72.2 | (5.0) | 67.2 | 82.2 | (15.0) |

[^3] Benefit-Cost Analysis

## Benefit-Cost Analysis

The project team assessed the travel time benefits and project costs to evaluate the overall benefit-cost of each corridor retiming project and of the corridor retiming program as a whole.

## Benefits

Several measures of effectiveness may be used to assess the benefits of the retiming projects, including all of the metrics analyzed in the retiming. Vehicle travel time is used in this analysis for directly measuring and monetizing the benefits of retiming, but additional societal benefits are captured with the range of measures used in this analysis and should be considered when looking at the overall benefit of signal retiming.

The daily travel time savings, taken from the AM and PM peak hours, were previously presented for each corridor in Table 6. These travel time savings are expected to be experienced daily on each corridor for approximately 300 days per year (estimated days with observable AM and PM peaking characteristics).

The travel time savings for corridors retimed during the weekend are calculated considering a two-hour peak period on Saturday and Sunday. Saturday and Sunday are considered separately for the purposes of calculating travel time savings. The analysis considers 52 weekends per year ( 52 Saturdays and 52 Sundays).

## The corridor retiming projects provided an estimated travel time savings of 455 vehicle-hours per weekday and 61 vehicle-hours per weekend day.

The annual travel time savings (vehicle-hours) are translated into monetary benefits through unit costs obtained from the 2021 Urban Mobility Report published by Texas A\&M Transportation Institute (TTI). The monetary value of time is valued at $\$ 20.17$ per hour in that report.

The annual monetary benefits were converted to a present value monetary benefit assuming a three-year project life and an interest rate of four percent (FDOT Design Manual, January 2021, Chapter 122). The assumptions used regarding the monetary benefits estimation over the life of the project are summarized in Table 19. Benefit-Cost Analysis

Table 19: Monetary Benefit Assumptions

| MOE Values | Unit Value | Source |
| :---: | :---: | :--- |
| Delay | \$20.17 per hour | 2021 Urban Mobility Report (TTI) |
| Weekday Daily Benefit | 2 hours | Calculated for one AM peak hour and one PM peak hour |
| Weekdays per Year | 300 days | Estimated days with AM \& PM peaking characteristics |
| Weekend Daily Benefit | 2 hours | Calculated for a two-hour peak period on Saturday and Sunday |
| Saturdays/Sundays <br> per Year | 52 days each | Estimated Saturdays and Sundays with travel time benefit |
| Project Life | 3 years | Estimated life of project benefits |
| Interest Rate | 4 percent | FDOT Design Manual, Chapter 122 |

## Costs

The project costs for the corridor retiming projects were provided by MetroPlan Orlando. Costs were provided on an individual corridor basis. The project costs are present value costs and therefore needed no further adjustment.

## Benefit-Cost Ratio

The benefit-cost ratio is calculated for each corridor by dividing the present value user benefit of the improvement by the project cost. Where corridors were divided into separate segments, due to a goal other than improving end-to-end travel time along the corridor, the segment travel time savings were summed to calculate the total corridor travel time savings for use in the benefit/cost analysis.

The benefit-cost ratio for each corridor retiming project is summarized in Table 20.
Considering only the metrics for peak period corridor travel time, the retiming projects provided overall benefit-cost ratios in excess of one for 20 of 27 projects (74\%), with benefitcost ratios ranging from 1.0 to 30.1. Three (3) projects had a benefit-cost ratio between zero and one.

The corridor retiming program is estimated to have a total present value benefit of approximately $\$ 7,820,504$ over the next three years. The total cost of the program was approximately $\$ 995,742$.

The benefit-cost ratio of the 2020/2021 corridor retiming program was 7.9. Benefit-Cost Analysis

Table 20: Benefit-Cost Summary

| Corridor No. | Name |  | Benefit |  | Project Cost | B/C Ratio |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Savings (veh-hr) | Annual | Present Value |  |  |
| 1 | Hiawassee Road | 1 | \$5,428 | \$15,062 | \$21,378.17 | 0.7 |
| 2 | Metrowest Boulevard | 8 | \$48,320 | \$134,094 | \$21,378.17 | 6.3 |
| 3 | Universal Boulevard | (3) | (\$19,792) | (\$54,926) | \$38,443.01 | (1.4) |
| 4 | Millenia Blvd | 15 | \$87,859 | \$243,818 | \$24,424.74 | 10.0 |
| 5 | Vineland Road | 5 | \$29,025 | \$80,546 | \$24,424.74 | 3.3 |
| 6 | Apopka Vineland Road | 12 | \$73,099 | \$202,857 | \$47,495.23 | 4.3 |
| 7 | Conroy Windermere Road | 54 | \$323,807 | \$898,595 | \$32,496.32 | 27.7 |
| 8 | Good Homes Road/Old Winter Garden Road | 32 | \$195,611 | \$542,839 | \$83,996.38 | 6.5 |
| 9 | West Road/Clarcona Ocoee Road | 30 | \$182,110 | \$505,373 | \$79,066.42 | 6.4 |
| 10 | Beggs Road/Edgewater Drive | 4 | \$26,068 | \$72,340 | \$34,267.37 | 2.1 |
| 11 | John Young Parkway | 111 | \$670,981 | \$1,862,032 | \$71,504.89 | 26.0 |
| $12^{1}$ | SR 426 | 12 | \$12,976 | \$36,008 | \$35,851.15 | 1.0 |
| $13^{1}$ | SR 434 | 12 | \$12,283 | \$34,088 | \$55,937.01 | 0.6 |
| $14^{1}$ | US17/92 | (10) | (\$10,765) | (\$29,873) | \$9,396.75 | (3.2) |
| $15^{1}$ | SR 436 | 33 | \$34,198 | \$94,902 | \$35,203.15 | 2.7 |
| $16^{1}$ | SR 434 | 12 | \$12,443 | \$34,531 | \$31,239.51 | 1.1 |
| $17^{2}$ | Sand Lake Road (Weekday) | 1 | \$7,269 | \$20,171 | \$19,506.51 | 1.0 |
|  | Sand Lake Road (Weekend) | 3 | \$3,048 | \$8,458 | \$19,506.51 | 0.4 |
| 18 | US 192 | 61 | \$366,452 | \$1,016,937 | \$58,344.88 | 17.4 |
| 19 | CR 532 | 69 | \$417,388 | \$1,158,291 | \$38,488.84 | 30.1 |
| 20 | Good Homes Road | (1) | (\$4,727) | (\$13,119) | \$21,491.00 | (0.6) |
| 21 | Pine Hills Road | 70 | \$424,718 | \$1,178,630 | \$48,266.00 | 24.4 |
| 22 | Maitland Avenue | 20 | \$123,243 | \$342,009 | \$26,274.00 | 13.0 |
| 23 | Hiawassee Road (Apopka) | (5) | (\$32,546) | (\$90,318) | \$21,491.00 | (4.2) |
| 24 | Hiawassee Road (Orange) | (13) | (\$77,201) | (\$214,239) | \$64,554.00 | (3.3) |
| 25 | Park Avenue | (10) | (\$59,835) | (\$166,048) | \$15,658.50 | (10.6) |
| 26 | Vick Road | (6) | (\$33,352) | (\$92,555) | \$15,658.50 | (5.9) |
| TOTAL |  | 516 | \$2,818,107.31 | \$7,820,504.34 | \$995,742.74 | 7.9 |

${ }^{1}$ Retimed only for the weekend. ${ }^{2}$ Retimed for the weekday and weekend. *B/C analysis only considers peak period driver corridor travel time metric

## Summary of Performance Measures

 seven times the program's overall cost. A summary of all of the performance measures for each corridor is provided below in Table 21.

Table 21: Summary of Performance Measures

| Corridor No. | Name | Change in Corridor Travel Time (veh-hr) | $\begin{gathered} \mathrm{B} / \mathrm{C} \\ \text { Ratio } \end{gathered}$ | Change in Overall Reliability | Reduction in Fuel Consumption (gal/yr) | Reduction in <br> Emissions (tons/yr) | Change in Average Intersection Delay (sec/veh) | Change in Number of Stops <br> (\#) | Change in Number of Slow Downs (\#) | Change in Vehicles Exceeding Speed Limit (\%) | Change in Average Pedestrian Delay (sec) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Hiawassee Road | 1 | 0.7 | Reliable to Reliable | 234 | 2.3 | (5) | (0.1) | (0.3) | -3\% | 0.0 |
| 2 | Metrowest Boulevard | 8 | 6.3 | Reliable to Reliable | 2,084 | 20.2 | 6 | 0.2 | 0.0 | 1\% | 0.0 |
| 3 | Universal Boulevard | (3) | (1.4) | Reliable to Reliable | (854) | (8.3) | (9) | (0.2) | (0.4) | 5\% | 0.0 |
| 4 | Millenia Blvd | 15 | 10.0 | Reliable to Reliable | 3,790 | 36.8 | 12 | 0.3 | 0.1 | -2\% | 0.0 |
| 5 | Vineland Road | 5 | 3.3 | Unreliable to Unreliable | 1,252 | 12.1 | (4) | 0.2 | 0.3 | -5\% | (17.5) |
| 6 | Apopka Vineland Road | 12 | 4.3 | Reliable to Reliable | 3,153 | 30.6 | 13 | 0.4 | 0.5 | -4\% | (5.3) |
| 7 | Conroy Windermere Road | 54 | 27.7 | Reliable to Unreliable | 13,967 | 135.5 | 19 | 0.7 | 0.6 | -1\% | (1.7) |
| $8^{1}$ | Good Homes Road/Old Winter Garden Road | 32 | 6.5 | Reliable to Reliable | 8,437 | 81.8 | (45) | 0.0 | (1.8) | 0\% | (3.1) |
| 91 | West Road/Clarcona Ocoee Road | 30 | 6.4 | Reliable to Reliable | 7,855 | 76.2 | (45) | 1.6 | 2.5 | 1\% | (15.2) |
| $10^{1}$ | Beggs Road/Edgewater Drive | 4 | 2.1 | Unreliable to Unreliable | 1,124 | 10.9 | 1 | 0.2 | (0.6) | -2\% | 2.3 |
| 11 | John Young Parkway | 111 | 26.0 | Reliable to Reliable | 28,942 | 280.7 | 4 | 1.5 | 1.6 | -8\% | (3.2) |
| $12^{2}$ | SR 426 | 12 | 1.0 | Reliable to Reliable | 560 | 5.4 | 6 | (0.0) | 0.2 | -2\% | (0.1) |
| $13^{2}$ | SR 434 | 12 | 0.6 | Reliable to Reliable | 530 | 5.1 | (2) | (0.6) | (0.3) | -9\% | 2.7 |
| $14^{2}$ | US17/92 | (10) | (3.2) | Unreliable to Reliable | (464) | (4.5) | (7) | 0.3 | 0.2 | -3\% | 29.6 |
| $15^{2}$ | SR 436 | 33 | 2.7 | Reliable to Reliable | 1,475 | 14.3 | (16) | 0.4 | 0.3 | -2\% | 0.0 |
| $16^{2}$ | SR 434 | 12 | 1.1 | Reliable to Reliable | 537 | 5.2 | 10 | 1.9 | 2.2 | -10\% | 2.7 |
| $17^{3}$ | Sand Lake Road (Weekday) | 1 | 1.0 | Reliable to Reliable | 314 | 3.0 | 53 | 0.1 | 0.1 | -2\% | 6.3 |
| 173 | Sand Lake Road (Weekend) | 3 | 0.4 | Reliable to Reliable | 131 | 1.3 | 2 | 0.1 | 0.3 | 1\% | 4.2 |
| 18 | US 192 | 61 | 17.4 | Reliable to Reliable | 15,806 | 153.3 | 22 | 1.2 | 1.3 | -2\% | (4.5) |
| 19 | CR 532 | 69 | 30.1 | Reliable to Unreliable | 18,003 | 174.6 | (1) | 0.1 | 0.1 | -3\% | 19.6 |
| 20 | Good Homes Road | (1) | (0.6) | Reliable to Reliable | (204) | (2.0) | 12 | (0.1) | (0.1) | 0\% | 0.0 |
| 21 | Pine Hills Road | 70 | 24.4 | Reliable to Reliable | 18,319 | 177.7 | (2) | 0.9 | 0.4 | 1\% | 0.0 |
| 22 | Maitland Avenue | 20 | 13.0 | Reliable to Reliable | 5,316 | 51.6 | 7 | 0.3 | 0.4 | -3\% | 2.4 |
| 23 | Hiawassee Road (Apopka) | (5) | (4.2) | Unreliable to Unreliable | $(1,404)$ | (13.6) | 4 | 0.2 | 0.1 | -6\% | 0.0 |
| 24 | Hiawassee Road (Orange) | (13) | (3.3) | Reliable to Reliable | $(3,330)$ | (32.3) | 34 | (0.4) | (0.9) | 1\% | 0.6 |
| 25 | Park Avenue | (10) | (10.6) | Reliable to Unreliable | $(2,581)$ | (25.0) | 8 | 0.0 | 0.1 | 1\% | (6.5) |
| 26 | Vick Road | (6) | (5.9) | Unreliable to Unreliable | $(1,439)$ | (14.0) | 1 | (0.1) | 0.0 | 1\% | (10.0) |
| OVERALL PROGRAM TOTAL: |  | 516 | 7.9 | - | 121,554 | 1,179 | AVERAGE: 3 | 0.2 | 0.1 | -2\% | 0.1 |

${ }^{1}$ Corridor was split into multiple parts for analysis based on corridor goals. ${ }^{2}$ Retimed only for the weekend. ${ }^{3}$ Retimed for the weekday and weekend.
*Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively
*Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively

## Appendix A: CV Methodology Memorandum

Appendix B: Traffic Volumes

## Appendix C: School Intersection Delay Queue Studies

## Appendix D: Pedestrian Delay By Intersection


[^0]:    ${ }^{1}$ Corridor 8, 9, and 10 were split into multiple parts for analysis based on corridor goals.
    ${ }^{2}$ Retimed only for the weekend.
    ${ }^{3}$ Retimed for the weekday and weekend.

[^1]:    ${ }^{1}$ Only the first date of the week is reported
    ${ }^{2}$ Corridor was split into multiple parts for analysis based on corridor goals.
    ${ }^{3}$ Retimed only for the weekend.
    ${ }^{4}$ Retimed for the weekday and weekend.

[^2]:    ${ }^{1}$ Corridor was split into multiple parts for analysis based on corridor goals. ${ }^{2}$ Retimed only for the weekend. ${ }^{3}$ Retimed for the weekday and weekend.

[^3]:    ${ }^{1}$ Corridor was split into multiple parts for analysis based on corridor goals. ${ }^{2}$ Retimed only for the weekend. ${ }^{3}$ Retimed for the weekday and weekend.
    *Data collected on Saturday and Sunday are presented in the AM and PM columns, respectively

